



CHARLOTTE, NORTH CAROLINA

2016 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION
ACCRUALS RELATED TO ELECTRIC PLANT
AS OF DECEMBER 31, 2016

Prepared by:



Excellence Delivered As Promised

DUKE ENERGY PROGRESS

Charlotte, North Carolina

2016 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION
ACCRUALS RELATED TO ELECTRIC PLANT
AS OF DECEMBER 31, 2016

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC
Camp Hill, Pennsylvania



*Excellence Delivered **As Promised***

May 23, 2017

Duke Energy Progress
550 S. Tryon Street
Charlotte, NC 28202

Attention: Cynthia Lee
Director, Asset Accounting

Ladies and Gentlemen:

Pursuant to your request, we have conducted a depreciation study related to the electric plant of Duke Energy Progress as of December 31, 2016. The attached report presents a description of the methods used in the estimation of depreciation, the summary of annual depreciation accrual rates, the statistical support for the life and net salvage estimates and the detailed tabulations of annual depreciation.

Respectfully submitted,

GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC

A handwritten signature in black ink that reads "John J. Spanos".

JOHN J. SPANOS
Sr. Vice President

JJS:mlw

061918.000

Gannett Fleming Valuation and Rate Consultants, LLC

P.O. Box 67100 • Harrisburg, PA 17106-7100 | 207 Senate Avenue • Camp Hill, PA 17011
t: 717.763.7221 • f: 717.763.4590

www.gfvrc.com



TABLE OF CONTENTS

EXECUTIVE SUMMARY iii

PART I. INTRODUCTION..... I-1
 Scope..... I-2
 Plan of Report..... I-2
 Basis of the Study I-3
 Depreciation I-3
 Service Life and Net Salvage Estimates..... I-4

PART II. ESTIMATION OF SURVIVOR CURVES..... II-1
 Survivor Curves..... II-2
 Iowa Type Curves..... II-3
 Retirement Rate Method of Analysis II-9
 Schedules of Annual Transactions in Plant Records..... II-10
 Schedule of Plant Exposed to Retirement..... II-13
 Original Life Table II-15
 Smoothing the Original Survivor Curve..... II-17

PART III. SERVICE LIFE CONSIDERATIONS..... III-1
 Field Trips III-2
 Service Life Analysis III-3
 Life Span Estimates..... III-5

PART IV. NET SALVAGE CONSIDERATIONS..... IV-1
 Salvage Analysis..... IV-2
 Net Salvage Considerations IV-2

PART V. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION..... V-1
 Group Depreciation Procedures..... V-2
 Single Unit of Property..... V-2
 Remaining Life Annual Accruals..... V-3
 Average Service Life Procedure..... V-3
 Calculation of Annual and Accrued Amortization..... V-4

PART VI. RESULTS OF STUDY..... VI-1
 Qualification of Results..... VI-2
 Description of Statistical Support VI-2
 Description of Depreciation Tabulations..... VI-3

TABLE OF CONTENTS, cont

Table 1. Summary of Estimated Survivor Curves, Net Salvage Percent, Original Cost, Book Depreciation Reserve and Calculated Annual Depreciation Rates as of December 31, 2016.....	VI-4
PART VII. SERVICE LIFE STATISTICS.....	VII-11
PART VIII. NET SALVAGE STATISTICS.....	VIII-11
Table 1. Calculation of Terminal and Interim Retirements as a Percent of Total Retirements.....	VIII-2
Table 2. Calculation of Weighted Net Salvage Percent.....	VIII-3
Table 3. Calculation of Terminal Net Salvage Percent.....	VIII-4
PART IX. DETAILED DEPRECIATION CALCULATIONS.....	IX-11

DUKE ENERGY PROGRESS

DEPRECIATION STUDY

EXECUTIVE SUMMARY

Pursuant to Duke Energy Progress' ("DEP" or "Company") request, Gannett Fleming Valuation and Rate Consultants, LLC ("Gannett Fleming") conducted a depreciation study related to the electric plant as of December 31, 2016. The purpose of this study was to determine the annual depreciation accrual rates and amounts for book and ratemaking purposes.

The depreciation rates are based on the straight line method using the average service life ("ASL") procedure and were applied on a remaining life basis. The calculations were based on attained ages and estimated average service life, and forecasted net salvage characteristics for each depreciable group of assets.

The depreciation study results in an overall increase in depreciation expense. This is primarily related to three factors, all of which affect production plant accounts. There is a net decrease in depreciation expense for transmission, distribution and general plant accounts, which is the result of longer service lives or less negative net salvage estimates for certain accounts. The increase in depreciation expense for production plant accounts is the result of capital additions and replacements of components of many of the Company's power plants, shorter life span estimates for some of the Company's production plant facilities, and a new decommissioning study that provides an estimate of the future cost to retire the Company's production facilities. These changes produce the most appropriate depreciation rates for the Company's

production plant accounts, but result in a necessary increase in depreciation expense in order to ensure the recovery of the Company's investments.

Gannett Fleming recommends the calculated annual depreciation accrual rates set forth herein apply specifically to electric plant in service as of December 31, 2016 as summarized by Table 1 of the study. Supporting analysis and calculations are provided within the study.

The study results set forth an annual depreciation expense of \$752.5 million when applied to depreciable plant balances as of December 31, 2016. The results are summarized at the functional level as follows:

SUMMARY OF ORIGINAL COST, ACCRUAL RATES AND AMOUNTS

FUNCTION	ORIGINAL COST AS OF DECEMBER 31, 2016	PROPOSED RATE	PROPOSED EXPENSE
Steam Production Plant	\$3,745,801,605.14	3.83	\$143,281,064
Nuclear Production Plant	7,923,028,273.38	2.73	216,283,468
Hydraulic Production Plant	120,402,948.47	3.56	4,288,852
Other Production Plant	2,990,581,483.35	4.55	135,955,459
Transmission Plant	2,281,172,011.00	1.95	44,407,785
Distribution Plant	5,936,416,871.46	2.64	156,653,365
General Plant	605,361,135.72	5.20	31,454,329
Land Rights	256,897,911.43	1.18	3,025,334
General Plant Reserve Amortization	-	-	<u>17,172,838</u>
Total Depreciable Plant	<u>\$23,859,662,239.95</u>		<u>\$752,522,494</u>

*

PART I. INTRODUCTION

DUKE ENERGY PROGRESS DEPRECIATION STUDY

PART I. INTRODUCTION

SCOPE

This report sets forth the results of the depreciation study for Duke Energy Progress ("Company"), as applied to specific electric plant in service as of December 31, 2016. The rates and amounts are based on the straight line remaining life method of depreciation. This report also describes the concepts, methods and judgments which underlie the recommended annual depreciation accrual rates related to current electric plant in service.

The service life and net salvage estimates resulting from the study were based on informed judgment which incorporated analyses of historical plant retirement data as recorded through 2016; the net salvage analyses of historical plant retirement data recorded through 2016; a review of Company practice and outlook as they relate to plant operation and retirement; and consideration of current practice in the electric industry, including knowledge of service lives and net salvage estimates used for other electric companies.

PLAN OF REPORT

Part I, Introduction, contains statements with respect to the plan of the report, and the basis of the study. Part II, Estimation of Survivor Curves, presents descriptions of the considerations and the methods used in the service life study. Part III, Service Life Considerations, presents the factors and judgment utilized in the average service life analysis. Part IV, Net Salvage Considerations, presents the judgment utilized for the net salvage study. Part V, Calculation of Annual and Accrued Depreciation, describes the procedures used in the calculation of group depreciation. Part VI, Results of Study,

presents a summary by depreciable group of annual depreciation accrual rates and amounts, as well as composite remaining lives. Part VII, Service Life Statistics presents the statistical analysis of service life estimates, Part VIII, Net Salvage Statistics sets forth the statistical indications of net salvage percents, and Part IX, Detailed Depreciation Calculations presents the detailed tabulations of annual depreciation.

BASIS OF THE STUDY

Depreciation

Depreciation, in public utility regulation, is the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of utility plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among causes to be given consideration are wear and tear, deterioration, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand, and the requirements of public authorities.

Depreciation, as used in accounting, is a method of distributing fixed capital costs, less net salvage, over a period of time by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing electric utility service. Normally, the period of time over which the fixed capital cost is allocated to the cost of service is equal to the period of time over which an item renders service, that is, the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the straight-line method of depreciation.

For all accounts, the annual depreciation was calculated by the straight line method using the average service life procedure and the remaining life basis. The calculated remaining lives and annual depreciation accrual rates were based on

attained ages of plant in service and the estimated service life and salvage characteristics of each depreciable group. Amortization accounting or vintage pooling is proposed for most general plant accounts.

The straight line method, average service life procedure is a commonly used depreciation calculation procedure that has been widely accepted in jurisdictions throughout North America. Gannett Fleming recommends its continued use.

Service Life and Net Salvage Estimates

The service life and net salvage estimates used in the depreciation calculations were based on informed judgment which incorporated a review of management's plans, policies and outlook, a general knowledge of the electric utility industry, and comparisons of the service life and net salvage estimates from our studies of other electric utilities. The use of survivor curves to reflect the expected dispersion of retirement provides a consistent method of estimating depreciation for utility property. Iowa type survivor curves were used to depict the estimated survivor curves for the plant accounts. For steam and other production plants, the life span technique was used. In this technique, the date of final retirement was estimated for each unit, and the estimated survivor curves applied to each vintage were truncated at ages coinciding with the date of final retirement.

The procedure for estimating service lives consisted of compiling historical data for the plant accounts or depreciable groups, analyzing this history through the use of widely accepted techniques, and forecasting the survivor characteristics for each depreciable group on the basis of interpretations of the historical data analyses and the probable future. The combination of the historical experience and the estimated future yielded estimated survivor curves from which the average service lives were derived.

The estimates of net salvage by account incorporated a review of experienced costs of removal and salvage related to plant retirements, and consideration of trends

exhibited by the historical data. Each component of net salvage, i.e., cost of removal and salvage, was stated in dollars and as a percent of retirement.

An understanding of the function of the plant and information with respect to the reasons for past retirements and the expected causes of future retirements was obtained through discussions with operating and management personnel. The supplemental information obtained in this manner was considered in the interpretation and extrapolation of the statistical analyses.

PART II. ESTIMATION OF SURVIVOR CURVES

PART II. ESTIMATION OF SURVIVOR CURVES

The calculation of annual depreciation based on the straight line method requires the estimation of survivor curves and the selection of group depreciation procedures. The estimation of survivor curves is discussed below and the development of net salvage is discussed in later sections of this report.

SURVIVOR CURVES

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units, or by constructing a survivor curve by plotting the number of units which survive at successive ages.

The survivor curve graphically depicts the amount of property existing at each age throughout the life of an original group. From the survivor curve, the average life of the group, the remaining life expectancy, the probable life, and the frequency curve can be calculated. In Figure 1, a typical smooth survivor curve and the derived curves are illustrated. The average life is obtained by calculating the area under the survivor curve, from age zero to the maximum age, and dividing this area by the ordinate at age zero. The remaining life expectancy at any age can be calculated by obtaining the area under the curve, from the observation age to the maximum age, and dividing this area by the percent surviving at the observation age. For example, in Figure 1, the remaining life at age 30 is equal to the crosshatched area under the survivor curve divided by 29.5 percent surviving at age 30. The probable life at any age is developed by adding the age and remaining life. If the probable life of the property is calculated for each year of age, the probable life curve shown in the chart can be developed. The frequency curve presents the number of units retired in each age interval. It is derived by obtaining the differences between the amount of property surviving at the beginning and at the end of each interval.

This study has incorporated the use of Iowa curves developed from a retirement rate analysis of historical retirement history. A discussion of the concepts of survivor curves and of the development of survivor curves using the retirement rate method is presented below.

Iowa Type Curves

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as the Iowa type curves. There are four families in the Iowa system, labeled in accordance with the location of the modes of the retirements in relationship to the average life and the relative height of the modes. The left moded curves, presented in Figure 2, are those in which the greatest frequency of retirement occurs to the left of, or prior to, average service life. The symmetrical moded curves, presented in Figure 3, are those in which the greatest frequency of retirement occurs at average service life. The right moded curves, presented in Figure 4, are those in which the greatest frequency occurs to the right of, or after, average service life. The origin moded curves, presented in Figure 5, are those in which the greatest frequency of retirement occurs at the origin, or immediately after age zero. The letter designation of each family of curves (L, S, R or O) represents the location of the mode of the associated frequency curve with respect to the average service life. The numbers represent the relative heights of the modes of the frequency curves within each family.

The Iowa curves were developed at the Iowa State College Engineering Experiment Station through an extensive process of observation and classification of the ages at which industrial property had been retired. A report of the study which resulted in the classification of property survivor characteristics into 18 type curves,

Gannett Fleming

114

Duke Energy Progress
December 31, 2015

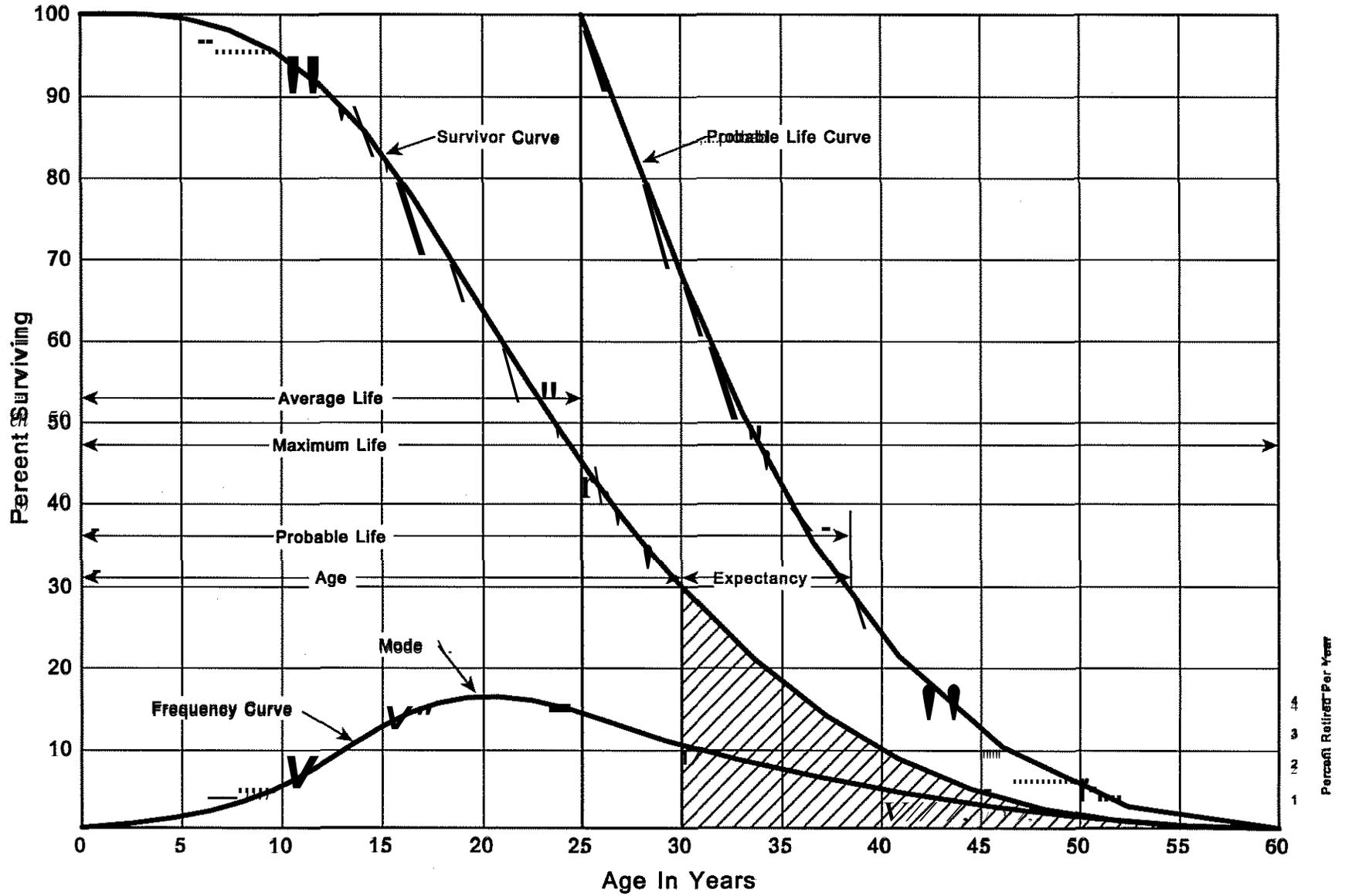


Figure 1. A Typical Survivor Curve and Derived Curves

Gannett Fleming

11-5

Buick Energy Progress
December 31, 2016

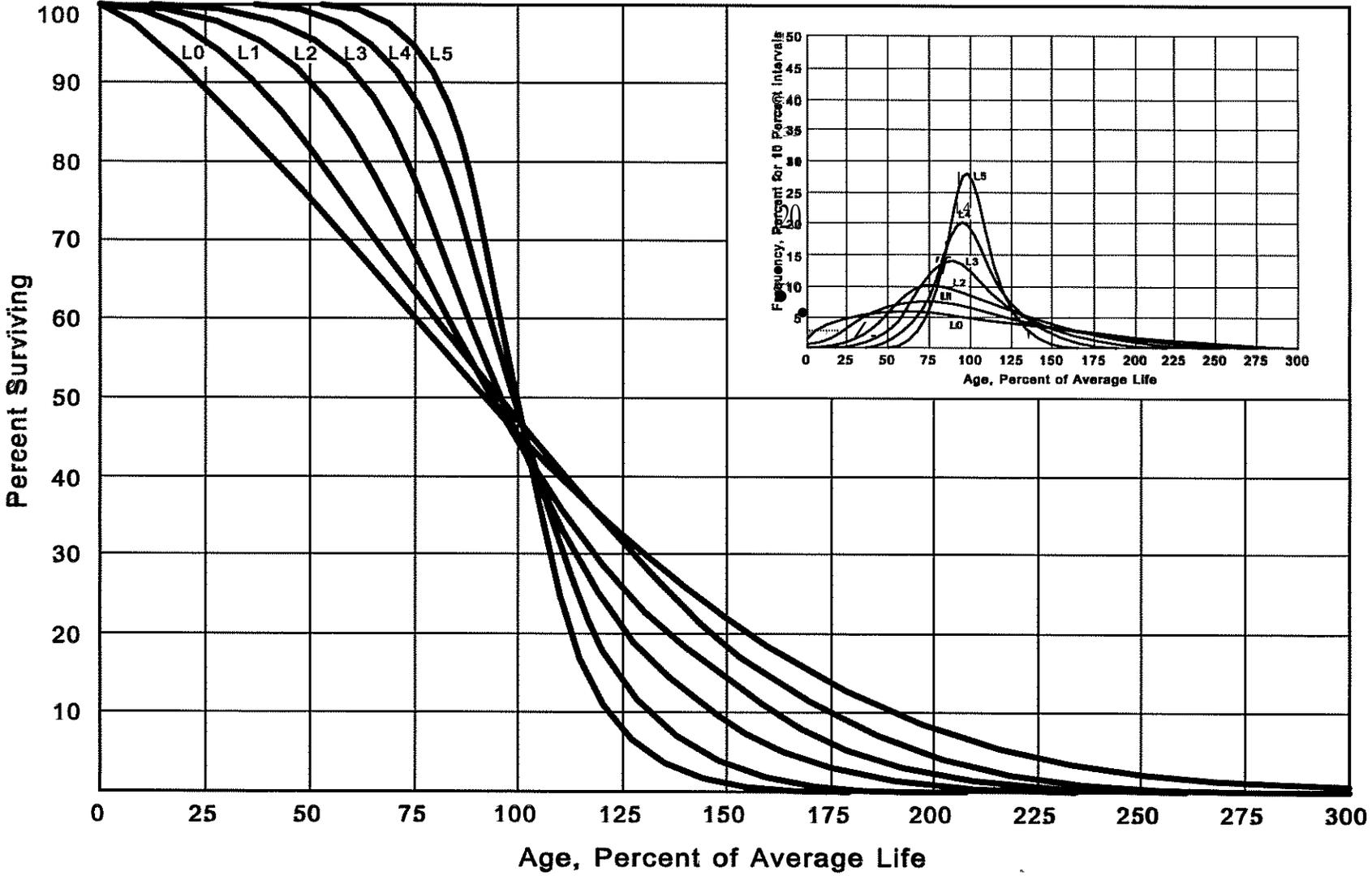


Figure 2. Left Modal or "L" Iowa Type Survivor Curves

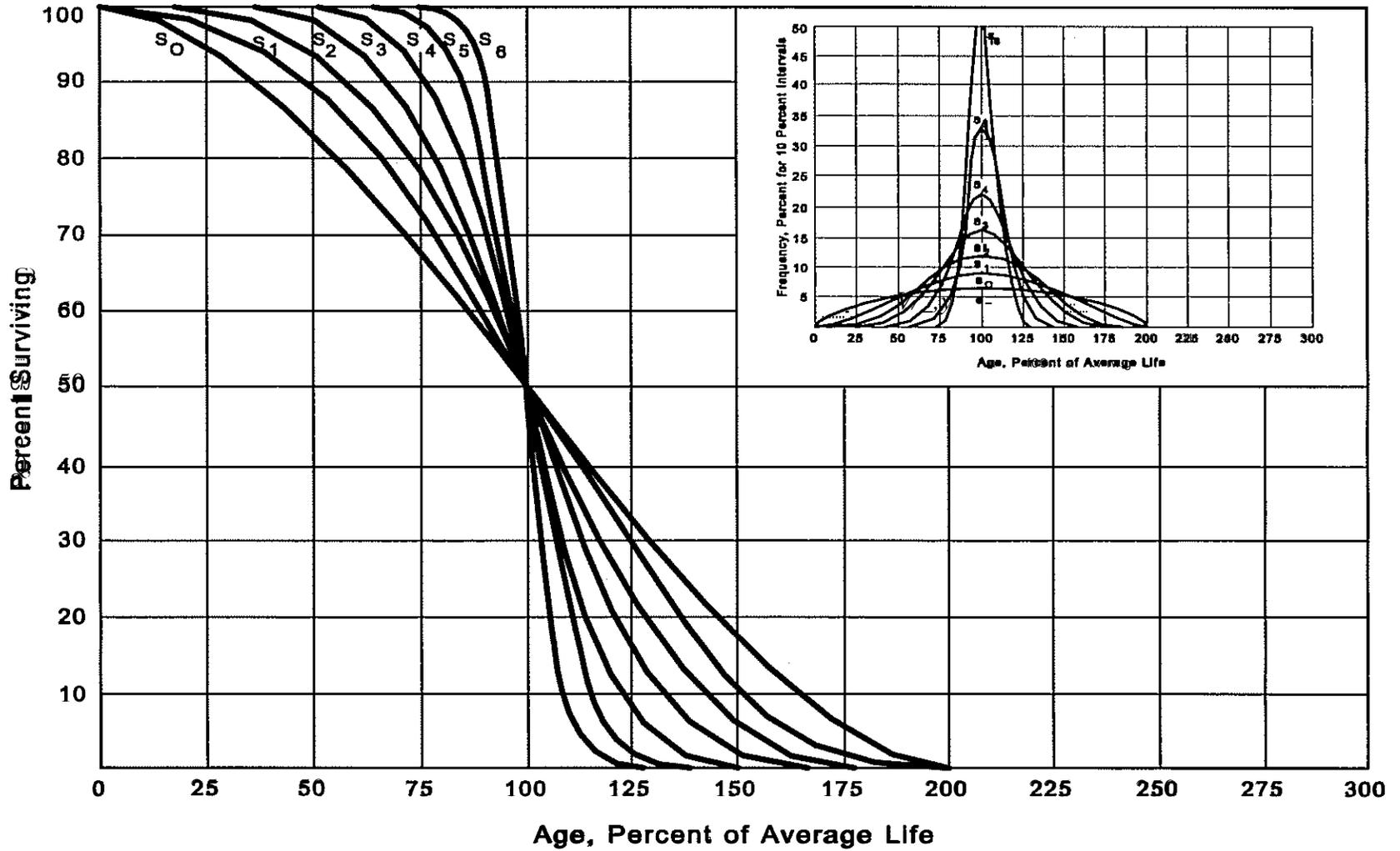


Figure 3. Symmetrical or "S" Iowa Type Survivor Curves

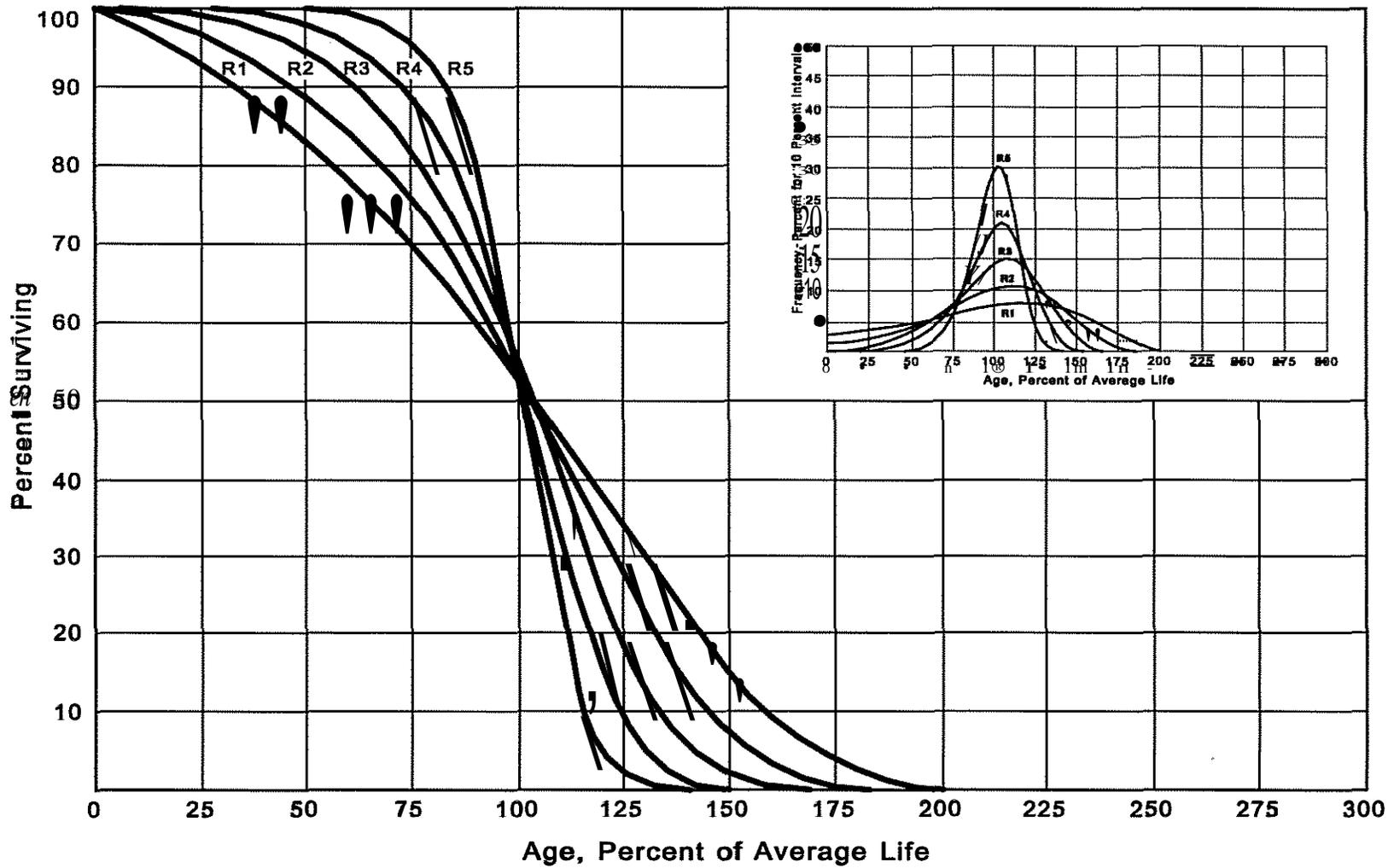


Figure 4. Right Modal or "R" Iowa Type Survivor Curves

Gannett Fleming

100

Bufile Energy Progress
Date October 31, 2016

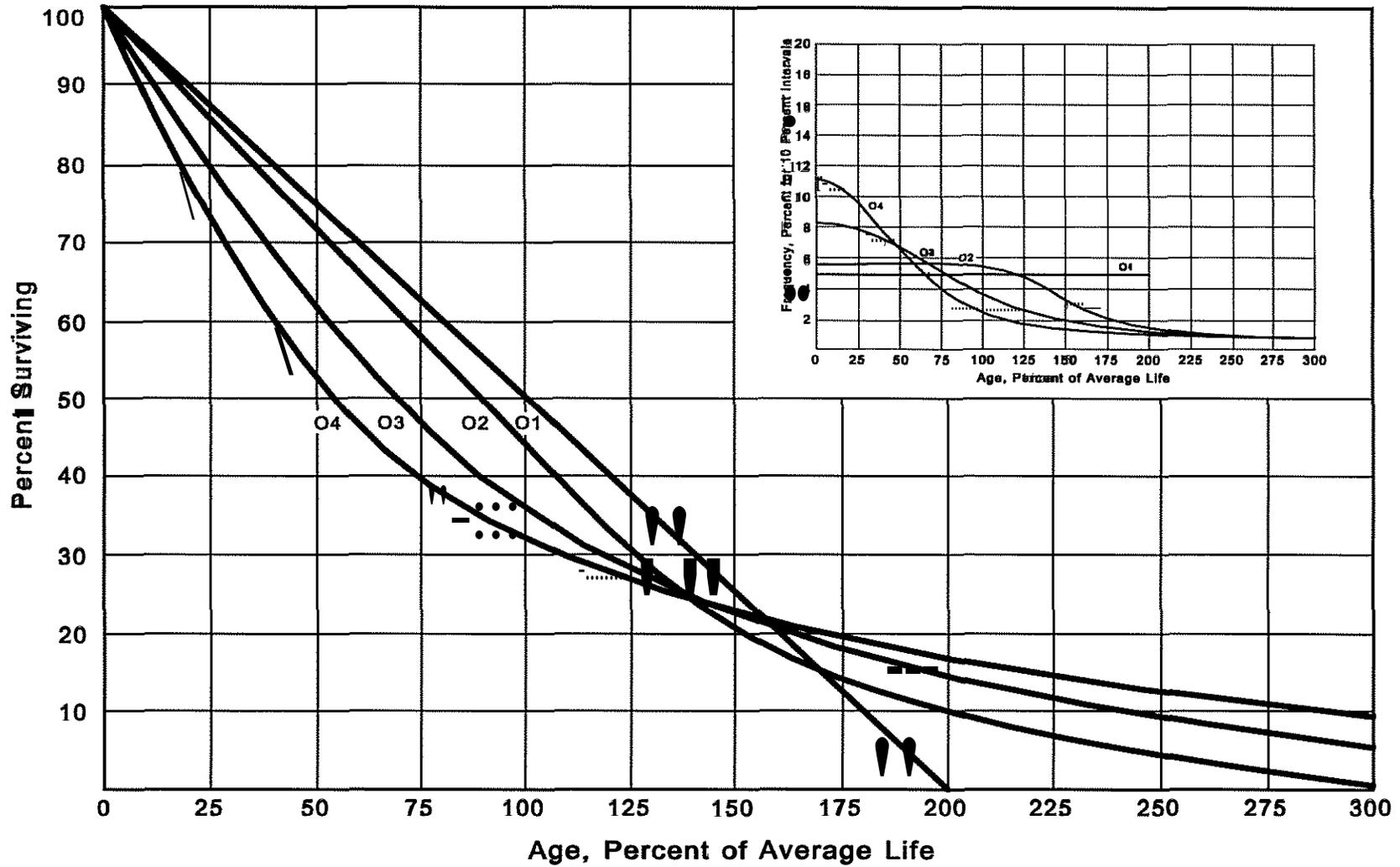


Figure 5. Origin Modal or "O" Iowa Type Survivor Curves

which constitute three of the four families, was published in 1935 in the form of the Experiment Station's Bulletin 125. These curve types have also been presented in subsequent Experiment Station bulletins and in the text, "Engineering Valuation and Depreciation."¹ In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student submitted a thesis presenting his development of the fourth family consisting of the four O type survivor curves.

Retirement Rate Method of Analysis

The retirement rate method is an actuarial method of deriving survivor curves using the average rates at which property of each age group is retired. The method relates to property groups for which aged accounting experience is available and is the method used to develop the original stub survivor curves in this study. The method (also known as the annual rate method) is illustrated through the use of an example in the following text, and is also explained in several publications, including "Statistical Analyses of Industrial Property Retirements,"² "Engineering Valuation and Depreciation,"³ and "Depreciation Systems."⁴

The average rate of retirement used in the calculation of the percent surviving for the survivor curve (life table) requires two sets of data: first, the property retired during a period of observation, identified by the property's age at retirement; and second, the property exposed to retirement at the beginning of the age intervals during the same period. The period of observation is referred to as the experience band, and the band of years which represent the installation dates of the property exposed to retirement during the experience band is referred to as the placement band. An example of the calculations used in the development of a life table follows. The example includes

¹Marston, Anson, Robley Winfrey and Jean C. Hempstead. Engineering Valuation and Depreciation, 2nd Edition. New York, McGraw-Hill Book Company. 1953.

²Winfrey, Robley, Statistical Analyses of Industrial Property Retirements. Iowa State College Engineering Experiment Station, Bulletin 125. 1935..

³Marston, Anson, Robley Winfrey, and Jean C. Hempstead, Supra Note 1.

⁴Wolf, Frank K. and W. Chester Fitch. Depreciation Systems. Iowa State University Press. 1994.

schedules of annual aged property transactions, a schedule of plant exposed to retirement, a life table and illustrations of smoothing the stub survivor curve.

Schedules of Annual Transactions in Plant Records

The property group used to illustrate the retirement rate method is observed for the experience band 2007-2016 during which there were placements during the years 2002-2016. In order to illustrate the summation of the aged data by age interval, the data were compiled in the manner presented in Schedules 1 and 2 on pages 111 and 112. In Schedule 1, the year of installation (year placed) and the year of retirement are shown. The age interval during which a retirement occurred is determined from this information. In the example which follows, \$10,000 of the dollars invested in 2002 were retired in 2007. The \$10,000 retirement occurred during the age interval between 4% and 5% years on the basis that approximately one-half of the amount of property was installed prior to and subsequent to July 1 of each year. That is, on the average, property installed during a year is placed in service at the midpoint of the year for the purpose of the analysis. All retirements also are stated as occurring at the midpoint of a one-year age interval of time, except the first age interval which encompasses only one-half year.

The total retirements occurring in each age interval in a band are determined by summing the amounts for each transaction year-installation year combination for that age interval. For example, the total of \$143,000 retired for age interval 4%-5% is the sum of the retirements entered on Schedule 1 immediately above the stair step line drawn on the table beginning with the 2007 retirements of 2002 installations and ending with the 2016 retirements of the 2011 installations. Thus, the total amount of 143 for age interval 4%-5% equals the sum of:

$$10 + 12 + 13 + 11 + 13 + 13 + 15 + 17 + 19 + 20.$$

SCHEDULE 1. RETIREMENTS FOR EACH YEAR 2007-2016
SUMMARIZED BY AGE INTERVAL

Experience Band 2007-2016

Placement Band 2002-2016

Year Placed (1)	Retirements, Thousands of Dollars										Total During Age Interval (12)	Age Interval (13)
	During Year											
	2007 (2)	2008 (3)	2009 (4)	2010 (5)	2011 (6)	2012 (7)	2013 (8)	2014 (9)	2015 (10)	2016 (11)		
2002	10	11	12	13	14	16	23	24	25	26	26	13%-14%
2003	11	12	13	15	16	18	20	21	22	19	44	12%-13%
2004	11	12	13	14	16	17	19	21	22	18	64	11%-12%
2005	8	9	10	11	11	13	14	15	16	17	83	10%-11%
2006	9	10	11	12	13	14	16	17	19	20	93	9%-10%
2007	4	9	10	11	12	13	14	15	16	20	105	8%-9%
2008		5	11	12	13	14	15	16	18	20	113	7%-8%
2009			6	12	13	15	16	17	19	19	124	6%-7%
2010				6	13	15	16	17	19	19	131	5%-6%
2011					7	14	16	17	19	20	143	4%-5%
2012						8	18	20	22	23	146	3%-4%
2013							9	20	22	25	150	2%-3%
2014								11	23	25	151	1½-2%
2015									11	24	153	½-1%
2016										13	80	0%
Total	53	68	86	106	128	157	196	231	273	308	1,606	

SCHEDULE 2. OTHER TRANSACTIONS FOR EACH YEAR 2007-2016
SUMMARIZED BY AGE INTERVAL

Experience Band 2007-2016

Placement Band 2002-2016

Year Placed (1)	Acquisitions, Transfers and Sales, Thousands of Dollars										Total During Age Interval (12)	Age Interval (13)
	During Year											
	2007 (2)	2008 (3)	2009 (4)	2010 (5)	2011 (6)	2012 (7)	2013 (8)	2014 (9)	2015 (10)	2016 (11)		
2002	-	-	-	-	-	-	60 ^a	-	-	-	-	13½-14%
2003	-	-	-	-	-	-	-	-	-	-	-	12½-13%
2004	-	-	-	-	-	-	-	-	-	-	-	11½-12%
2005	-	-	-	-	-	-	-	(5) ^b	-	-	60	10%-11%
2006	-	-	-	-	-	-	-	6 ^a	-	-	-	9%-10%
2007	-	-	-	-	-	-	-	-	-	-	(5)	8½-9½
2008	-	-	-	-	-	-	-	-	-	-	6	7½-8½
2009	-	-	-	-	-	-	-	-	-	-	-	6½-7½
2010	-	-	-	-	-	-	-	(12) ^b	-	-	-	5½-6½
2011	-	-	-	-	-	-	-	-	22 ^a	-	-	4½-5½
2012	-	-	-	-	-	-	-	(19) ^b	-	-	10	3½-4½
2013	-	-	-	-	-	-	-	-	-	-	-	2½-3½
2014	-	-	-	-	-	-	-	-	-	(102) ^c	(121)	1½-2½
2015	-	-	-	-	-	-	-	-	-	-	-	½-1½
2016	-	-	-	-	-	-	-	-	-	-	-	0-½
Total	-	-	-	-	-	-	60	(30)	22	(102)	(50)	

^a Transfer Affecting Exposures at Beginning of Year
^b Transfer Affecting Exposures at End of Year
^c Sale with Continued Use
 Parentheses Denote Credit Amount.

In Schedule 2, other transactions which affect the group are recorded in a similar manner. The entries illustrated include transfers and sales. The entries which are credits to the plant account are shown in parentheses. The items recorded on this schedule are not totaled with the retirements, but are used in developing the exposures at the beginning of each age interval.

Schedule of Plant Exposed to Retirement

The development of the amount of plant exposed to retirement at the beginning of each age interval is illustrated in Schedule 3 on page 11-14. The surviving plant at the beginning of each year from 2007 through 2016 is recorded by year in the portion of the table headed "Annual Survivors at the Beginning of the Year." The last amount entered in each column is the amount of new plant added to the group during the year. The amounts entered in Schedule 3 for each successive year following the beginning balance or additions are obtained by adding or subtracting the net entries shown on Schedules 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being exposed to retirement in this group at the beginning of the year in which they occurred, and the sales and transfers-out are considered to be removed from the plant exposed to retirement at the beginning of the following year. Thus, the amounts of plant shown at the beginning of each year are the amounts of plant from each placement year considered to be exposed to retirement at the beginning of each successive transaction year. For example, the exposures for the installation year 2012 are calculated in the following manner:

Exposures at age 0	≡ amount of addition	≡ \$750,000
Exposures at age 1%	≡ \$750,000 - \$ 8,000	≡ \$742,000
Exposures at age 2%	≡ \$742,000 - \$18,000	≡ \$724,000
Exposures at age 3%	≡ \$724,000 - \$20,000 - \$19,000	≡ \$685,000
Exposures at age 4%	≡ \$685,000 - \$22,000	≡ \$663,000

SCHEDULE 3. PLANT EXPOSED TO RETIREMENT
JANUARY 1 OF EACH YEAR 2007-2016
SUMMARIZED BY AGE INTERVAL

Experience Band 2007-2016											Placement Band 2002-2016	
Year Placed	Exposures, Thousands of Dollars										Total at Beginning of Age Interval	Age Interval
	Annual Survivors at the Beginning of the Year											
(1)	2007 (2)	2008 (3)	2009 (4)	2010 (5)	2011 (6)	2012 (7)	2013 (8)	2014 (9)	2015 (10)	2016 (11)	(12)	(13)
2002	255	245	234	222	209	195	239	216	192	167	167	13%-14%
2003	279	268	256	243	228	212	194	174	153	131	323	12%-13%
2004	307	296	284	271	257	241	224	205	184	162	531	11%-12%
2005	338	330	321	311	300	289	276	262	242	226	823	10%-11%
2006	376	367	357	346	334	321	307	297	280	261	1,097	9%-10%
2007	420 ^a	416	407	397	386	374	361	347	332	316	1,503	8%-9%
2008		460 ^a	455	444	432	419	405	390	374	356	1,952	7%-8%
2009			510 ^a	504	492	479	464	448	431	412	2,463	6%-7%
2010				580 ^a	574	561	546	530	501	482	3,057	5%-6%
2011					660 ^a	653	639	623	628	609	3,789	4%-5%
2012						750 ^a	742	724	685	663	4,332	3%-4%
2013							850 ^a	841	821	799	4,955	2%-3%
2014								960 ^a	949	926	5,719	1%-2%
2015									1,080 ^a	1,069	6,579	1%-1 1/2%
2016										1,220 ^a	7,490	0%
Total	1,975	2,382	2,824	3,318	3,872	4,494	5,247	6,017	6,852	7,799	44,780	

^aAdditions during the year

For the entire experience band 2007-2016, the total exposures at the beginning of an age interval are obtained by summing diagonally in a manner similar to the summing of the retirements during an age interval (Schedule 1). For example, the figure of 3,789, shown as the total exposures at the beginning of age interval 4½-5½, is obtained by summing:

$$255 + 268 + 284 + 311 + 334 + 374 + 405 + 448 + 501 + 609.$$

Original Life Table

The original life table, illustrated in Schedule 4 on page 1116, is developed from the totals shown on the schedules of retirements and exposures, Schedules 1 and 3, respectively. The exposures at the beginning of the age interval are obtained from the corresponding age interval of the exposure schedule, and the retirements during the age interval are obtained from the corresponding age interval of the retirement schedule. The retirement ratio is the result of dividing the retirements during the age interval by the exposures at the beginning of the age interval. The percent surviving at the beginning of each age interval is derived from survivor ratios, each of which equals one minus the retirement ratio. The percent surviving is developed by starting with 100% at age zero and successively multiplying the percent surviving at the beginning of each interval by the survivor ratio, i.e., one minus the retirement ratio for that age interval. The calculations necessary to determine the percent surviving at age 5½ are as follows:

Percent surviving at age 4½	=	88.15	
Exposures at age 4½	=	3,789,000	
Retirements from age 4½ to 5½	=	143,000	
Retirement Ratio	=	$143,000 \div 3,789,000$	= 0.0377
Survivor Ratio	=	$1.000 - 0.0377$	= 0.9623
Percent surviving at age 5½	=	$(88.15) \times (0.9623)$	= 84.83

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Schedules 1 and 3. The ratio of the total retirements to the total exposures, other than for each age interval, is meaningless.

**SCHEDULE 4. ORIGINAL LIFE TABLE
CALCULATED BY THE RETIREMENT RATE METHOD**

Experience Band 2007-2016

Placement Band 2002-2016

(Exposure and Retirement Amounts are in Thousands of Dollars)

Age at Beginning of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	Percent Surviving at Beginning of Age Interval
(1)	(2)	(3)	(4)	(5)	(6)
0.0	7,490	80	0.0107	0.9893	100.00
0.5	6,579	153	0.0233	0.9767	98.93
1.5	5,719	151	0.0264	0.9736	96.62
2.5	4,955	150	0.0303	0.9697	94.07
3.5	4,332	146	0.0337	0.9663	91.22
4.5	3,789	143	0.0377	0.9623	88.15
5.5	3,057	131	0.0429	0.9571	84.83
6.5	2,463	124	0.0503	0.9497	81.19
7.5	1,952	113	0.0579	0.9421	77.11
8.5	1,503	105	0.0699	0.9301	72.65
9.5	1,097	93	0.0848	0.9152	67.57
10.5	823	83	0.1009	0.8991	61.84
11.5	531	64	0.1205	0.8795	55.60
12.5	323	44	0.1362	0.8638	48.90
13.5	<u>167</u>	<u>26</u>	0.1557	0.8443	42.24
Total	<u>44,780</u>	<u>1,606</u>			35.66

Column 2 from Schedule 3, Column 12, Plant Exposed to Retirement.

Column 3 from Schedule 1, Column 12, Retirements for Each Year.

Column 4 = Column 3 Divided by Column 2.

Column 5 = 1.0000 Minus Column 4.

Column 6 = Column 5 Multiplied by Column 6 as of the Preceding Age Interval.

The original survivor curve is plotted from the original life table (column 6, Schedule 4). When the curve terminates at a percent surviving greater than zero, it is called a stub survivor curve. Survivor curves developed from retirement rate studies generally are stub curves.

Smoothing the Original Survivor Curve

The smoothing of the original survivor curve eliminates any irregularities and serves as the basis for the preliminary extrapolation to zero percent surviving of the original stub curve. Even if the original survivor curve is complete from 100% to zero percent, it is desirable to eliminate any irregularities, as there is still an extrapolation for the vintages which have not yet lived to the age at which the curve reaches zero percent. In this study, the smoothing of the original curve with established type curves was used to eliminate irregularities in the original curve.

The Iowa type curves are used in this study to smooth those original stub curves which are expressed as percents surviving at ages in years. Each original survivor curve was compared to the Iowa curves using visual and mathematical matching in order to determine the better fitting smooth curves. In Figures 6, 7, and 8, the original curve developed in Schedule 4 is compared with the L, S, and R Iowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an average life between 12 and 13 years appears to be the best fit. In Figure 7, the S0 type curve with a 12-year average life appears to be the best fit and appears to be better than the L1 fitting. In Figure 8, the R1 type curve with a 12-year average life appears to be the best fit and appears to be better than either the L1 or the S0.

In Figure 9, the three fittings, 12-L1, 12-S0 and 12-R1 are drawn for comparison purposes. It is probable that the 12-R1 Iowa curve would be selected as the most representative of the plotted survivor characteristics of the group.

FIGURE 6. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1 IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES

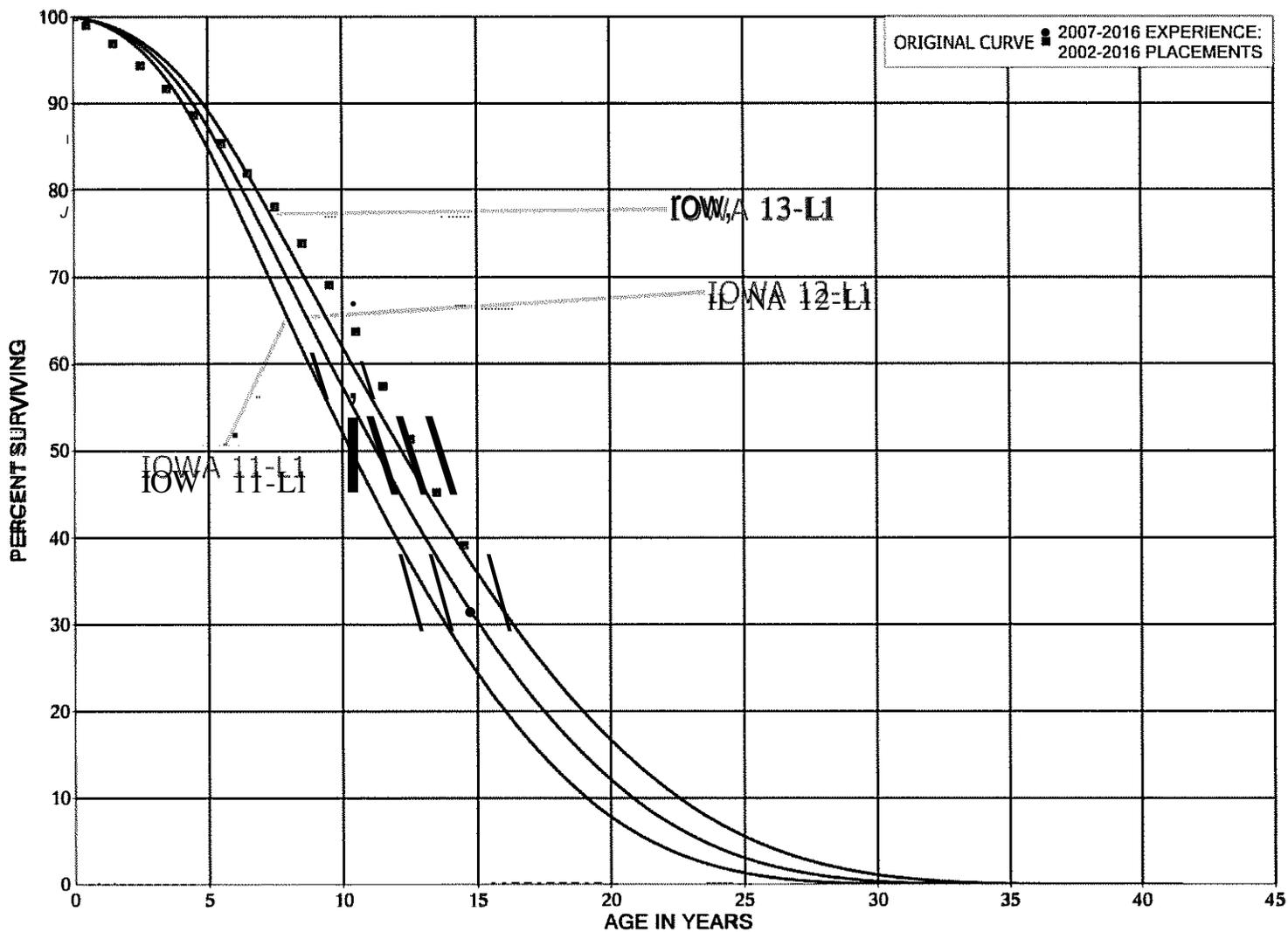


FIGURE 7. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN SO IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES

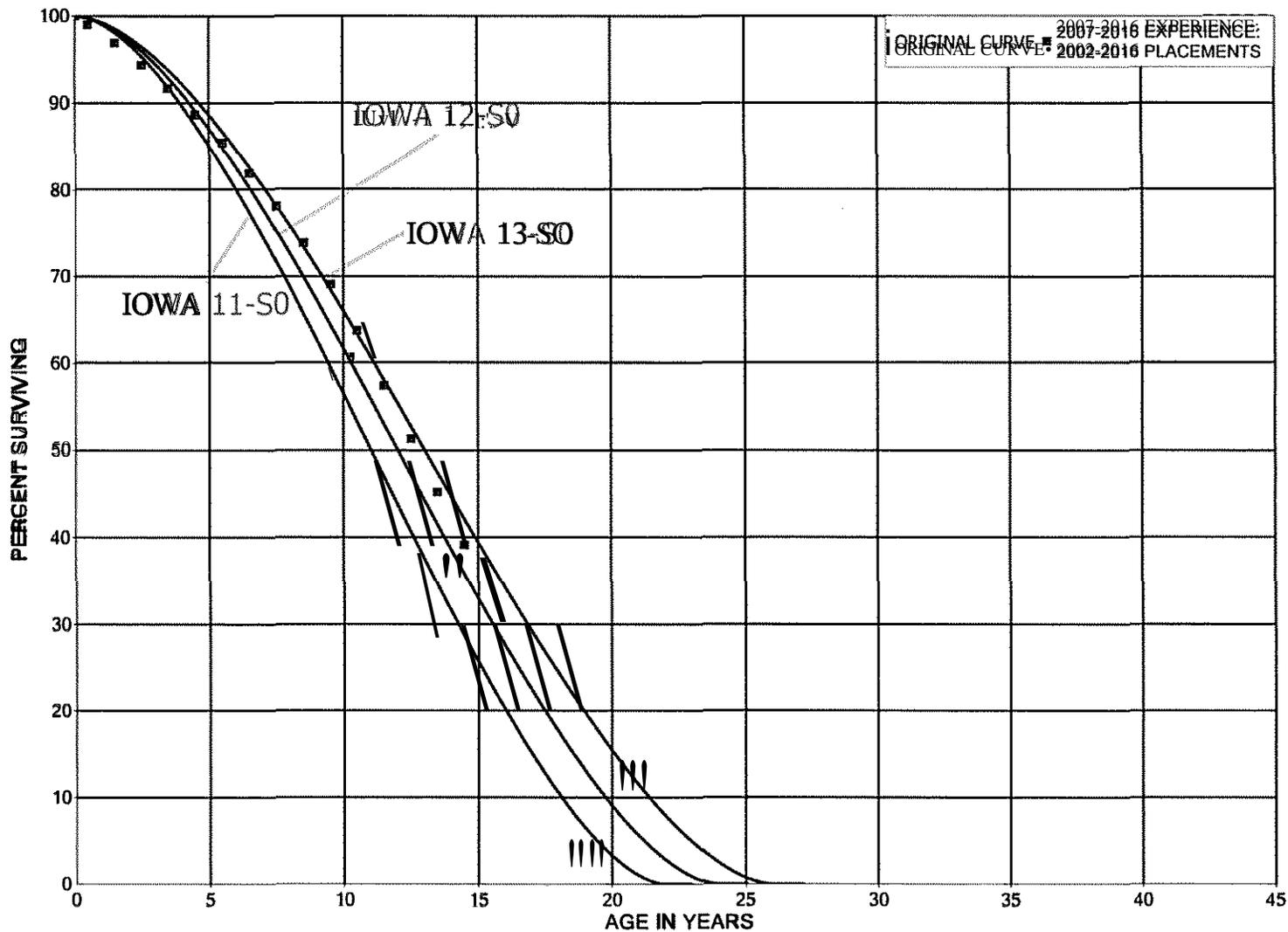


FIGURE 8. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN R1 IOWA TYPE CURVE ORIGINAL AND SMOOTH SURVIVOR CURVES

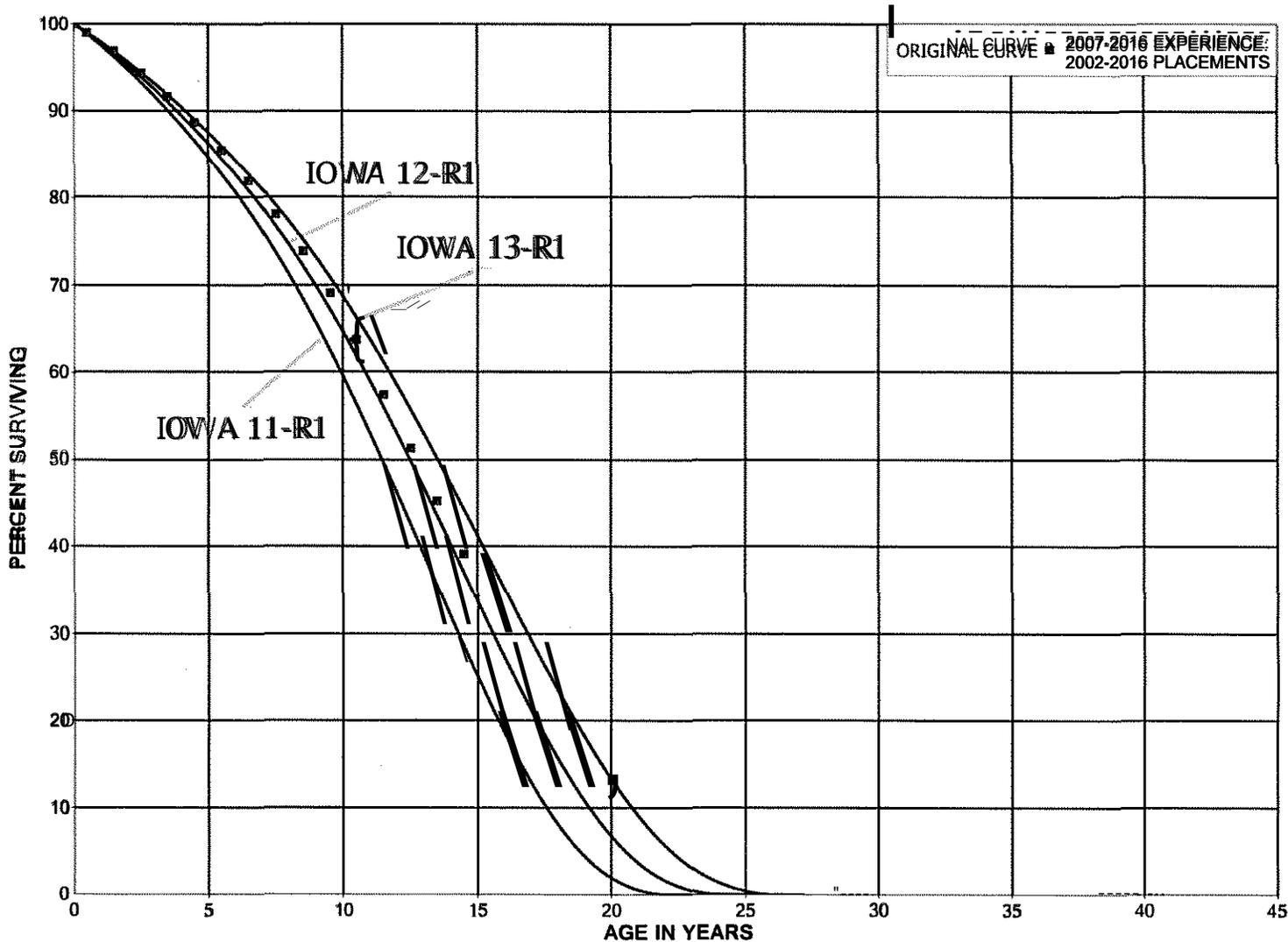
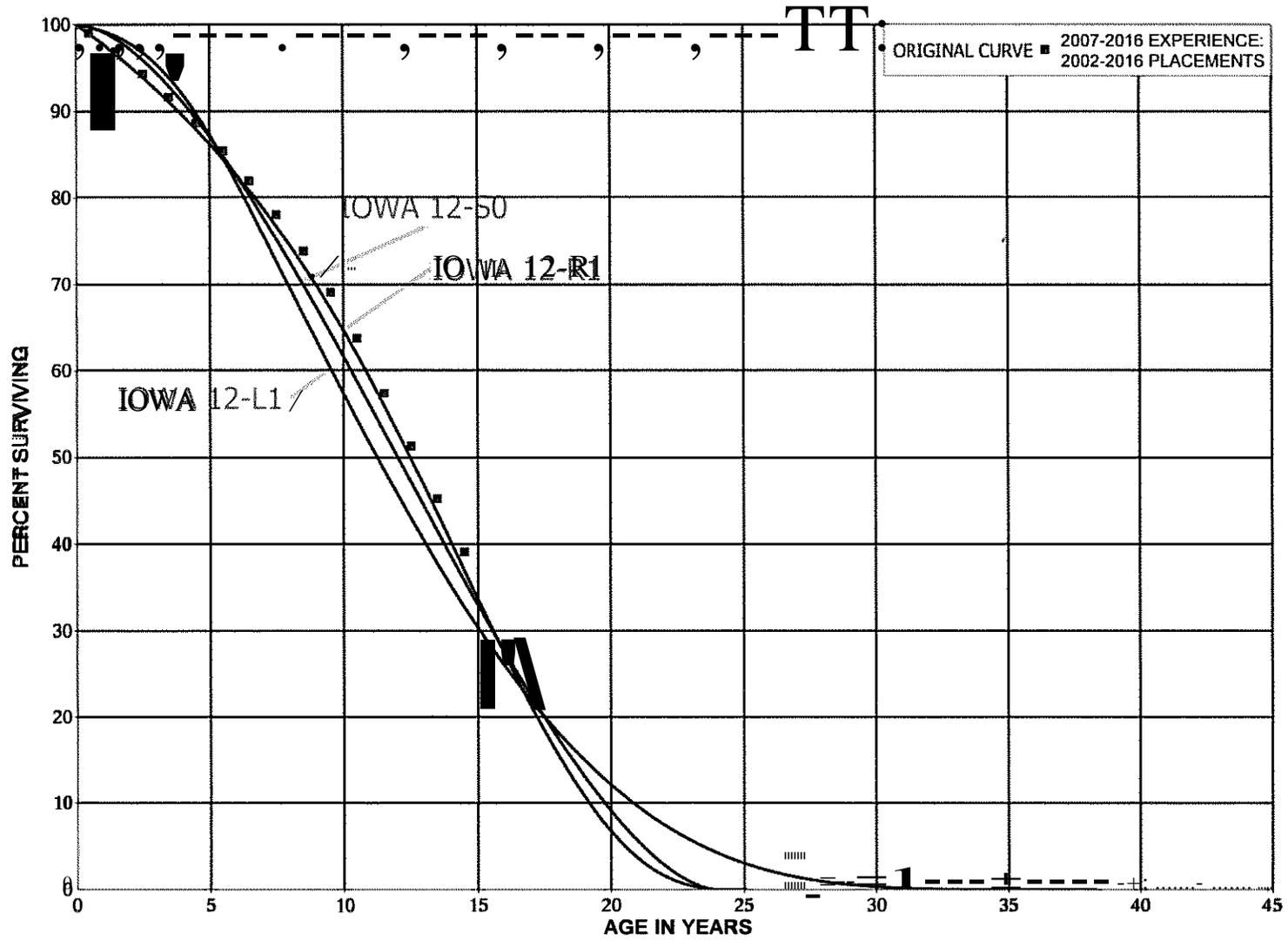


FIGURE 9. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1, S0 AND R1 IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES



PART III. SERVICE LIFE CONSIDERATIONS

PART III. SERVICE LIFE CONSIDERATIONS

FIELD TRIPS

In order to be familiar with the operation of the Company and observe representative portions of the plant, field trips have been conducted. A general understanding of the function of the plant and information with respect to the reasons for past retirements and the expected future causes of retirements are obtained during field trips. This knowledge and information were incorporated in the interpretation and extrapolation of the statistical analyses.

The following is a list of the locations visited during the initial field trip.

December 6, 2016

Blewett Generating Station
Smith Energy Complex

December 7, 2016

Roxboro Generating Station
Mayo Generating Station

January 13, 2017

Asheville Generating Station

SERVICE LIFE ANALYSIS

The service life estimates were based on judgment which considered a number of factors. The primary factors were the statistical analyses of data, current Company policies and outlook as determined during conversations with management; and the survivor curve estimates from previous studies of this company and other electric utility companies.

For 29 plant accounts and subaccounts for which survivor curves were estimated, the statistical analyses using the retirement rate method resulted in good to excellent indications of the survivor patterns experienced. These accounts represent 82

percent of depreciable plant. Generally, the information external to the statistics led to minimal or no significant departure from the indicated survivor curves for the accounts listed below. The statistical support for the service life estimates is presented in the section beginning on page VII-2.

STEAM PRODUCTION PLANT

311.00	Structures and Improvements
312.00	Boiler Plant Equipment
314.00	Turbogenerator Units
315.00	Accessory Electric Equipment
316.00	Miscellaneous Power Plant Equipment

NUCLEAR PRODUCTION PLANT

321.00	Structures and Improvements
322.00	Reactor Plant Equipment
325.00	Miscellaneous Plant Equipment

HYDRAULIC PRODUCTION PLANT

331.00	Structures and Improvements
332.00	Reservoirs, Dams and Waterway
333.00	Water Wheels, Turbines and Generators
334.00	Accessory Electric Equipment

OTHER PRODUCTION PLANT

342.00	Fuel Holders, Producers and Accessories
343.00	Prime Movers
343.10	Prime Movers – Rotable Parts
345.00	Accessory Electric Equipment

TRANSMISSION PLANT

353.00	Station Equipment
354.00	Towers and Fixtures
355.00	Poles and Fixtures

DISTRIBUTION PLANT

362.00	Station Equipment
364.00	Poles, Towers and Fixtures
365.00	Overhead Conductors and Devices
366.00	Underground Conduit
367.00	Underground Conductors and Devices
368.00	Line Transformers
369.00	Services
370.00	Metering Equipment
371.00	Installations on Customer Premises

GENERAL PLANT
392.00 Transportation Equipment

Account 365.00, Overhead Conductors and Devices, is used to illustrate the manner in which the study was conducted for the groups in the preceding list. Aged plant accounting data for the overhead conductors have been compiled for the years 1954 through 2016. These data have been coded in the course of the Company's normal record keeping according to account or property group, type of transaction, year in which the transaction took place, and year in which the electric plant was placed in service. The retirements, other plant transactions, and plant additions were analyzed by the retirement rate method.

The survivor curve estimate is based on the statistical indications for the period 1954 through 2016 and 1977 through 2016. The Iowa 44-R1.5 is a reasonable fit of the original survivor curve. The 44-year average service life is within the typical average service life range of 40 to 55 years for overhead conductor. The 44-year average service life reflects the Company's plans to replace conductor consistently in the future as have been retired in the past.

For Account 364, Poles, Towers and Fixtures, the survivor curve estimate is the 45-R2.5. The statistical analysis for this account provides a good indication of service life through age 66. The 45-R2.5 estimate is within the industry range and is consistent with the outlook for this account. Based on these considerations, the 45-R2.5 survivor curve is the most reasonable estimate for this account.

Similar studies were performed for the remaining plant accounts. Each of the judgments represented a consideration of statistical analyses of aged plant activity,

management's outlook for the future, and the typical range of lives used by other electric companies.

Life Span Estimates

Inasmuch as production plant consists of large generating units, the life span technique was employed in conjunction with the use of interim survivor curves which reflect interim retirements that occur prior to the ultimate retirement of the major unit. An interim survivor curve was estimated for each plant account, inasmuch as the rate of interim retirements differs from account to account. The interim survivor curves estimated for steam, nuclear, hydraulic and other production plant were based on the retirement rate method of life analysis which incorporated experienced aged retirements for the period 1923 through 2016 for steam; 1971 through 2016 for nuclear; 1912 through 2016 for hydraulic; and 1968 through 2016 for other production.

The depreciable life span estimates for power generating stations were the result of considering experienced life spans of similar generating units, the age of surviving units, general operating characteristics of the units, major refurbishments, discussions with management personnel concerning the probable long-term outlook for the units, and the estimate of the operating partner, if applicable.

The depreciable life span estimate for most steam, base-load units is 52 to 63 years, which is within the typical range of life spans for such units. With the exception of the Asheville units, these life spans represent the expected depreciable life of each facility under their current configuration. The Company plans to retire the Asheville steam units in 2019. The Company's proposal is to recover the costs of this facility over a 10-year period. For the other facilities, future capital expenditures can extend a facility's depreciable life, however, such changes to depreciable life would not be prudent until the capital expenditures are actually put into plant in service. The life span for nuclear units is approximately 60 years, and is consistent with the license dates for

each unit. The depreciable life span for hydraulic units is 104 to 143 years which corresponds to the license or relicense dates. A life span of 40-53 years was estimated for the combustion turbines. These life span estimates are typical for combustion turbines which are used primarily as peaking units. The combined cycle units are relatively new units with a commonly used 40-year life span estimate. All solar facilities have recently been constructed and will have a 25-year life span.

A summary of the major year in service, depreciable life span and depreciable life date for each power production unit follows:

<u>Depreciable Group</u>	<u>Major Year in Service</u>	<u>Depreciable Life Date</u>	<u>Depreciable Life Span</u>
Steam Production Plant			
Asheville Unit 1	1964	2027	63
Asheville Unit 2	1971	2027	56
Mayo Unit 1	1983	2035	52
Roxboro Unit 1	1966	2028	62
Roxboro Unit 2	1968	2028	60
Roxboro Unit 3	1973	2033	60
Roxboro Unit 4	1980	2033	53
Nuclear Production Plant			
Brunswick Unit 1	1977	2036	59
Brunswick Unit 2	1975	2034	59
Harris Unit 1	1987	2046	59
Robinson Unit 1	1971	2034	59
Hydraulic Production Plant			
Blewett	1912	2055	143
Marshall	1910	2035	125
Tillery	1928	2055	127
Walters	1930	2034	104
Other Production Plant			
Asheville	1999	2039	40
Blewett	1971	2024	53
Darlington Units 1-11	1974	2020	46
Darlington Units 12 and 13	1997	2037	40
H.F. Lee (Wayne County) Units 10-13	2000	2040	40

<u>Depreciable Group</u>	<u>Major Year in Service</u>	<u>Depreciable Life Date</u>	<u>Depreciable Life Span</u>
H.F. Lee (Wayne County) Unit 14	2009	2049	40
Sutton	1968	2017	49
Sutton CC	2013	2053	40
Sutton CTs	1968	2017	49
Weatherspoon	1970	2024	54
Smith CC (Richmond County) Block 4	2002	2042	40
Smith CC (Richmond County) Block 5	2011	2051	40
Smith CTs	2001	2041	40
H.F. Lee CC (Wayne County)	2012	2052	40
Camp Lejune Solar	2015	2040	25
Fayetteville Solar	2015	2040	25
Elm City Solar	2016	2041	25
Warsaw Solar	2015	2040	25

The selected amortization periods for other General Plant accounts are described in the section "Calculated Annual and Accrued Amortization."

PART IV. NET SALVAGE CONSIDERATIONS

PART IV. NET SALVAGE CONSIDERATIONS

SALVAGE ANALYSIS

The estimates of net salvage by account were based in part on historical data compiled through 2016. Cost of removal and salvage were expressed as percents of the original cost of plant retired, both on annual and three-year moving average bases. The most recent five-year average also was calculated for consideration. The net salvage estimates by account are expressed as a percent of the original cost of plant retired.

Net Salvage Considerations

The estimates of future net salvage are expressed as percentages of surviving plant in service, i.e., all future retirements. In cases in which removal costs are expected to exceed salvage receipts, a negative net salvage percentage is estimated. The net salvage estimates were based on judgment which incorporated analyses of historical cost of removal and salvage data, expectations with respect to future removal requirements and markets for retired equipment and materials.

The analyses of historical cost of removal and salvage data are presented in the section titled "Net Salvage Statistics" for the plant accounts for which the net salvage estimate relied partially on those analyses.

Statistical analyses of historical data for the periods 1979 through 2016 for all plant accounts were analyzed. The analyses contributed significantly toward the net salvage estimates for 37 plant accounts, representing 88 percent of the depreciable plant, as follows:

STEAM PRODUCTION PLANT

311.00	Structures and Improvements
312.00	Boiler Plant Equipment
314.00	Turbogenerator Units
315.00	Accessory Electric Equipment

316.00 Miscellaneous Power Plant Equipment

NUCLEAR PRODUCTION PLANT

321.00 Structures and Improvements
322.00 Reactor Plant Equipment
323.00 Turbogenerator Units
324.00 Accessory Electric Equipment
325.00 Miscellaneous Plant Equipment

HYDRAULIC PRODUCTION PLANT

332.00 Reservoirs, Dams and Waterway
334.00 Accessory Electric Equipment
335.00 Miscellaneous Plant Equipment

OTHER PRODUCTION PLANT

342.00 Fuel Holders, Producers and Accessories
344.00 Generators
345.00 Accessory Electric Equipment
346.00 Accessory Electric Equipment

TRANSMISSION PLANT

352.00 Structures and Improvements
353.00 Station Equipment
355.00 Poles and Fixtures
356.00 Underground Conductor and Devices

DISTRIBUTION PLANT

361.00 Structures and Improvements
362.00 Station Equipment
364.00 Poles, Towers and Fixtures
365.00 Overhead Conductors and Devices
366.00 Underground Conduit
367.00 Underground Conductors and Devices
368.00 Line Transformers
369.00 Services
370.00 Metering Equipment
371.00 Installations on Customer Premises
373.00 Street Lighting and Signal Systems

GENERAL PLANT

390.00 Structures and Improvements
392.00 Transportation Equipment
396.00 Stores Equipment

Account 368.00, Line Transformers, is used to illustrate the manner in which the study was conducted for the groups in the preceding list. Net salvage data for the period 1979 through 2016 were analyzed for this account. The data include cost of removal, gross salvage and net salvage amounts and each of these amounts is expressed as a percent of the original cost of regular retirements. Three-year moving averages for the 1979-1981 through 2014-2016 periods were computed to smooth the annual amounts.

Cost of removal was relatively consistent during the 1980s and 1990s, then fluctuated over the last 15 years. The primary cause of the high levels of cost of removal in recent years was the required effort needed to replace transformers due to various forces of retirement. Cost of removal for the most recent five years averaged 22 percent.

Gross salvage has varied throughout the period with high levels in 2011 and 2013 due to current practices of reuse. The most recent five-year average of 14 percent gross salvage reflects recent trends.

The net salvage percent based on the overall period 1979 through 2016 is 0 percent net salvage and based on the most recent five-year period is negative 8 percent. The typical range of estimates made by other electric companies for Line Transformers is positive 5 to negative 15 percent. The net salvage estimate for line transformers is negative 5 percent, is within the range of other estimates and reflects the levels of net salvage experienced over the last ten years.

The net salvage estimate for Account 353, Station Equipment, is negative 15 percent. Net salvage data for the period 1979 through 2016 were analyzed for this account. Cost of removal has been high in most years for the period studied. There has been some gross salvage, but it has been less than cost of removal and has only

averaged 1 percent since 2000 with the exception to 2006. For the period 1979 through 2016, net salvage has averaged negative 8 percent. More recent years have experienced higher levels of retirements and have also experienced increased costs of removal. The most recent five year average is negative 40 percent.

Estimates of negative 20 percent or less are common in the industry for this account, although there has been a trend to more negative net salvage in this account in recent years and some utilities do have estimates that are even more negative. While the trend for this account does support a more negative net salvage estimate than negative 15 percent, the negative 15 percent estimate reflects the expectations of the Company for this account as well as the experience of others in the industry.

The overall net salvage estimates for the Company's production facilities, for which the life span method is used, is based on estimates of both final net salvage and interim net salvage. Final net salvage is the net salvage experienced at the end of a production plant's life span. Interim net salvage is the net salvage experienced for interim retirements that occur prior to the final retirement of the plant. The final net salvage estimates in the study were based on a decommissioning study performed by Burns & McDonnell. These studies excluded ash pond closure activities. The interim net salvage estimates were based in part on an analysis of historical interim retirement and net salvage data. Based on informed judgment that incorporated these interim net salvage analyses for each plant account, an interim net salvage estimate of negative 16 percent was used for steam plant accounts; negative 10 percent for nuclear plant accounts; negative 16 percent for hydraulic plant accounts; and a negative 4 percent estimate was used for all other production plant accounts. The one exception is for Account 343.10, Prime Movers – Rotable Parts units for the combined cycle units. This account includes the hot gas path components of the combustion turbines for these

plants. An interim net salvage estimate of 40 percent is recommended, consistent with the historical data and outlook for these assets.

The interim survivor curve estimates for each account and production facility were used to calculate the percentage of plant expected to be retired as interim retirements and final retirements. These are shown on Table 1 in the Net Salvage Statistics section on page VIII-2. These percentages were used to determine the weighted net salvage estimate for each account and production facility based on the interim and final net salvage estimates. These calculations, as well as the estimated final net salvage and interim net salvage percents, are shown on Table 2 of the Net Salvage Statistics section on page VIII-3. Table 3 sets forth the calculation for establishing the terminal net salvage percent for each location which is utilized in Table 2.

The net salvage percents for the remaining accounts were based on judgment incorporating factors such as the statistical net salvage analysis, general knowledge of the property studied, and estimates of previous studies of this and other electric utilities.

Generally, the net salvage estimates for remaining general plant accounts were zero percent, consistent with amortization accounting.

PART V. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

PART V. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

GROUP DEPRECIATION PROCEDURES

A group procedure for depreciation is appropriate when considering more than a single item of property. Normally the items within a group do not have identical service lives, but have lives that are dispersed over a range of time. There are two primary group procedures, namely, average service life and equal life group. In the average service life procedure, the rate of annual depreciation is based on the average life or average remaining life of the group, and this rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

Single Unit of Property

The calculation of straight line depreciation for a single unit of property is straightforward. For example, if a \$1,000 unit of property attains an age of four years and has a life expectancy of six years, the annual accrual over the total life is:

$$\frac{\$1,000}{(4+6)} = \$100 \text{ per year.}$$

The accrued depreciation is:

$$\$1,000 \left(1 - \frac{6}{10} \right) = \$400.$$

Remaining Life Annual Accruals

For the purpose of calculating remaining life accruals as of December 31, 2016, the depreciation reserve for each plant account is allocated among vintages in proportion to the calculated accrued depreciation for the account. Explanations of remaining life accruals and calculated accrued depreciation follow. The detailed calculations as of December 31, 2016, are set forth in the Results of Study section of the report.

Average Service Life Procedure

In the average service life procedure, the remaining life annual accrual for each vintage is determined by dividing future book accruals (original cost less book reserve) by the average remaining life of the vintage. The average remaining life is a directly weighted average derived from the estimated future survivor curve in accordance with the average service life procedure.

The calculated accrued depreciation for each depreciable property group represents that portion of the depreciable cost of the group which would not be allocated to expense through future depreciation accruals if current forecasts of life characteristics are used as the basis for such accruals. The accrued depreciation calculation consists of applying an appropriate ratio to the surviving original cost of each vintage of each account based upon the attained age and service life. The straight line accrued depreciation ratios are calculated as follows for the average service life procedure:

$$\text{Ratio} \equiv 1 - \frac{\text{Average Remaining Life}}{\text{Average Service Life}}$$

CALCULATION OF ANNUAL AND ACCRUED AMORTIZATION

Amortization, as defined in the Uniform System of Accounts, is the gradual extinguishment of an amount in an account by distributing such amount over a fixed period, over the life of the asset or liability to which it applies, or over the period during which it is anticipated the benefit will be realized. Normally, the distribution of the amount is in equal amounts to each year of the amortization period.

The calculation of annual and accrued amortization requires the selection of an amortization period. The amortization periods used in this report were based on judgment which incorporated a consideration of the period during which the assets will render most of their service, the amortization periods and service lives used by other utilities, and the service life estimates previously used for the asset under depreciation accounting.

Amortization accounting is appropriate for certain General Plant accounts that represent numerous units of property, but a very small portion of total depreciable electric plant in service. The accounts and their amortization periods are as follows:

<u>Account</u>	<u>Amortization Period, Years</u>
391, Office Furniture and Equipment	
Furniture and Equipment	15
EDP	8
393, Stores Equipment	20
394, Tools, Shop and Garage Equipment	20
395, Laboratory Equipment	15
397, Communication Equipment	10
398, Miscellaneous Equipment	20

For the purpose of calculating annual amortization amounts as of December 31, 2016, the book depreciation reserve for each plant account or subaccount is assigned or allocated to vintages. The book reserve assigned to vintages with an age greater

than the amortization period is equal to the vintage's original cost. The remaining book reserve is allocated among vintages with an age less than the amortization period in proportion to the calculated accrued amortization. The calculated accrued amortization is equal to the original cost multiplied by the ratio of the vintage's age to its amortization period. The annual amortization amount is determined by dividing the future amortizations (original cost less allocated book reserve) by the remaining period of amortization for the vintage.

PART VI. RESULTS OF STUDY

PART VI. RESULTS OF STUDY

QUALIFICATION OF RESULTS

The calculated annual and accrued depreciation are the principal results of the study. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives and salvage and for the change of the composition of property in service. The annual accrual rates were calculated in accordance with the straight line remaining life method of depreciation, using the average service life procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

The annual depreciation accrual rates are applicable specifically to the electric plant in service as of December 31, 2016. For most plant accounts, the application of such rates to future balances that reflect additions subsequent to December 31, 2016, is reasonable for a period of three to five years.

DESCRIPTION OF STATISTICAL SUPPORT

The service life and salvage estimates were based on judgment which incorporated statistical analyses of retirement data, discussions with management and consideration of estimates made for other electric utility companies. The results of the statistical analyses of service life are presented in the section titled "Service Life Statistics".

The estimated survivor curves for each account are presented in graphical form. The charts depict the estimated smooth survivor curve and original survivor curve(s),

when applicable, related to each specific group. For groups where the original survivor curve was plotted, the calculation of the original life table is also presented.

The analyses of salvage data are presented in the section titled, "Net Salvage Statistics". The tabulations present annual cost of removal and salvage data, three-year moving averages and the most recent five-year average. Data are shown in dollars and as percentages of original costs retired.

DESCRIPTION OF DEPRECIATION TABULATIONS

A summary of the results of the study, as applied to the original cost of electric plant as of December 31, 2016, is presented on pages VI-4 through VI-12 of this report. The schedule sets forth the original cost, the book reserve, future accruals, the calculated annual depreciation rate and amount, and the composite remaining life related to electric plant.

The tables of the calculated annual depreciation accruals are presented in account sequence in the section titled "Detailed Depreciation Calculations." The tables indicate the estimated survivor curve and net salvage percent for the account and set forth, for each installation year, the original cost, the calculated accrued depreciation, the allocated book reserve, future accruals, the remaining life and the calculated annual accrual amount.

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (10)	
							AMOUNT (8)	RATE (9) (%)		
STEAM PRODUCTION PLANT										
311.00	STRUCTURES AND IMPROVEMENTS									
	ASHEVILLE UNIT 1	12-2027	100-R2.5 *	(5)	40,986,503.48	38,338,768	4,697,061	428,791	1.05	14.9
	ASHEVILLE UNIT 2	12-2027	100-R2.5 *	(5)	42,373,261.02	29,558,169	14,933,755	1,363,810	3.22	11.0
	MAYO UNIT 1	06-2035	100-R2.5 *	(6)	168,932,483.46	118,963,653	60,104,779	3,285,836	1.95	18.3
	ROXBORO UNIT 1	06-2028	100-R2.5 *	(6)	17,174,677.21	13,260,176	4,944,982	432,079	2.52	11.4
	ROXBORO UNIT 2	06-2028	100-R2.5 *	(6)	5,416,496.90	3,622,998	2,118,989	185,249	3.42	11.4
	ROXBORO UNIT 3	06-2033	100-R2.5 *	(6)	38,522,181.79	35,365,971	5,467,542	333,874	0.87	16.4
	ROXBORO UNIT 4	06-2033	100-R2.5 *	(6)	19,466,674.79	9,187,750	11,446,925	701,687	3.60	16.3
	ROXBORO COMMON	06-2033	100-R2.5 *	(6)	156,283,330.87	37,043,695	128,616,635	7,857,852	5.03	16.4
	TOTAL STRUCTURES AND IMPROVEMENTS				489,155,609.52	285,340,660	232,330,668	14,589,178	2.88	15.9
312.00	BOILER PLANT EQUIPMENT									
	ASHEVILLE UNIT 1	12-2027	60-R1 *	(5)	148,313,601.63	88,085,114	67,644,168	6,347,551	4.28	10.7
	ASHEVILLE UNIT 2	12-2027	60-R1 *	(5)	144,993,923.70	105,389,755	46,853,865	4,396,429	3.03	10.7
	MAYO UNIT 1	06-2035	60-R1 *	(6)	838,812,299.80	304,311,661	584,829,371	31,687,721	4.01	17.4
	ROXBORO UNIT 1	06-2028	60-R1 *	(6)	204,279,933.62	68,266,541	148,270,188	13,393,102	6.56	11.1
	ROXBORO UNIT 2	06-2028	60-R1 *	(6)	303,987,260.53	152,193,269	170,833,227	15,319,150	5.04	11.1
	ROXBORO UNIT 3	06-2033	60-R1 *	(6)	323,712,623.07	104,640,568	238,494,812	15,331,189	4.74	15.6
	ROXBORO UNIT 4	06-2033	60-R1 *	(6)	346,753,013.34	295,343,930	72,214,264	4,598,356	1.33	15.7
	ROXBORO COMMON	06-2033	60-R1 *	(6)	223,669,705.24	169,853,000	67,236,888	4,266,946	1.91	15.8
	TOTAL BOILER PLANT EQUIPMENT				2,534,522,360.93	1,268,083,838	1,395,576,789	97,340,444	3.84	14.3
312.10	BOILER PLANT EQUIPMENT - SCR CATALYST									
	ASHEVILLE UNIT 1	12-2027	10-S2 *	0	3,862,916.02	2,830,291	1,032,625	172,814	4.47	6.0
	ASHEVILLE UNIT 2	12-2027	10-S2 *	0	1,927,313.56	1,432,556	494,757	104,781	5.44	4.1
	MAYO UNIT 1	06-2035	10-S2 *	0	7,428,602.62	5,548,930	1,879,673	408,100	5.49	4.6
	ROXBORO UNIT 1	06-2028	10-S2 *	0	7,925,144.00	7,229,540	695,604	145,609	1.84	4.8
	ROXBORO UNIT 2	06-2028	10-S2 *	0	5,857,261.54	4,518,682	1,338,580	228,843	3.91	5.8
	ROXBORO UNIT 3	06-2033	10-S2 *	0	6,471,525.71	4,014,000	2,457,496	512,753	7.92	4.8
	ROXBORO UNIT 4	06-2033	10-S2 *	0	7,261,916.42	6,892,725	369,192	88,934	1.22	4.2
	TOTAL BOILER PLANT EQUIPMENT - SCR CATALYST				40,734,679.87	32,466,753	8,267,927	1,661,834	4.08	5.0
314.00	TURBOGENERATOR UNITS									
	ASHEVILLE UNIT 1	12-2027	60-S0 *	(6)	18,741,885.48	6,284,075	13,394,904	1,264,809	6.75	10.6
	ASHEVILLE UNIT 2	12-2027	60-S0 *	(6)	13,882,956.62	12,752,295	1,824,809	168,185	1.21	10.9
	MAYO UNIT 1	06-2035	60-S0 *	(6)	109,381,682.47	60,085,585	55,858,998	3,327,325	3.04	16.8
	ROXBORO UNIT 1	06-2028	60-S0 *	(6)	45,496,950.35	14,542,765	33,684,002	3,031,544	6.66	11.1
	ROXBORO UNIT 2	06-2028	60-S0 *	(6)	44,294,101.32	12,120,409	34,831,338	3,145,016	7.10	11.1
	ROXBORO UNIT 3	06-2033	60-S0 *	(6)	71,631,233.48	26,606,865	49,322,242	3,146,966	4.39	15.7
	ROXBORO UNIT 4	06-2033	60-S0 *	(6)	62,337,989.16	35,048,863	31,029,406	2,031,835	3.28	15.3
	ROXBORO COMMON	06-2033	60-S0 *	(6)	452,602.14	316,186	163,573	10,685	3.86	15.3
	TOTAL TURBOGENERATOR UNITS				368,219,401.02	167,757,044	220,109,272	16,126,365	4.40	13.6
315.00	ACCESSORY ELECTRIC EQUIPMENT									
	ASHEVILLE UNIT 1	12-2027	65-R1.5 *	(5)	17,355,131.07	9,170,592	9,052,296	841,105	4.85	10.8
	ASHEVILLE UNIT 2	12-2027	65-R1.5 *	(5)	10,773,733.68	11,210,241	102,179	9,444	0.09	10.6
	MAYO UNIT 1	06-2035	65-R1.5 *	(6)	66,310,642.67	28,897,600	41,391,681	2,352,360	3.55	17.8
	ROXBORO UNIT 1	06-2028	65-R1.5 *	(6)	27,905,371.32	6,475,056	23,104,638	2,064,642	7.40	11.2
	ROXBORO UNIT 2	06-2028	65-R1.5 *	(6)	24,051,101.36	15,919,199	9,574,969	853,008	6.58	11.2
	ROXBORO UNIT 3	06-2033	65-R1.5 *	(6)	43,691,759.56	14,423,083	31,890,182	2,016,287	4.51	15.8
	ROXBORO UNIT 4	06-2033	65-R1.5 *	(6)	35,812,524.30	20,831,068	17,130,208	1,091,218	3.05	15.7
	ROXBORO COMMON	06-2033	65-R1.5 *	(6)	23,062,490.99	6,032,042	18,414,199	1,155,858	5.01	15.9
	TOTAL ACCESSORY ELECTRIC EQUIPMENT				248,962,754.95	112,958,880	150,660,352	10,383,922	4.17	14.5

Cahners/Ernst & Young

V-4

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (10)
							AMOUNT (8)	RATE (9) = (8)/(5)	
316.00	MISCELLANEOUS POWER PLANT EQUIPMENT								
	ASHEVILLE UNIT 1	12-2027	50-S0 *	11,242,842.79	3,984,110	7,820,875	736,216	6.55	10.6
	ASHEVILLE UNIT 2	12-2027	50-S0 *	5,120,201.92	4,383,586	992,626	54,031	1.04	10.6
	MAYO UNIT 1	06-2036	50-S0 *	11,881,936.66	4,849,565	7,745,288	462,117	3.89	16.8
	ROXBORO UNIT 1	06-2028	50-S0 *	3,955,672.42	1,494,859	2,698,153	244,976	6.19	11.0
	ROXBORO UNIT 2	06-2028	50-S0 *	4,625,804.91	2,938,804	1,964,549	178,033	3.85	11.0
	ROXBORO UNIT 3	06-2033	50-S0 *	4,350,990.42	1,838,481	2,773,569	181,671	4.18	15.3
	ROXBORO UNIT 4	06-2033	50-S0 *	5,172,811.44	2,517,146	2,966,034	198,370	3.83	15.0
	ROXBORO COMMON	06-2033	50-S0 *	19,856,538.29	4,269,506	16,776,425	1,083,907	5.46	15.5
	TOTAL MISCELLANEOUS POWER PLANT EQUIPMENT			66,206,798.85	26,276,057	43,739,519	1,317,932	4.80	13.8
	TOTAL STEAM PRODUCTION PLANT			3,745,801,885.14	1,912,883,251	2,058,884,527	143,281,064	3.83	
	NUCLEAR PRODUCTION PLANT								
321.00	STRUCTURES AND IMPROVEMENTS								
	BRUNSWICK UNIT 1	09-2036	80-S1 *	342,536,583.98	177,908,662	171,478,654	8,967,612	2.62	19.1
	BRUNSWICK UNIT 2	12-2034	80-S1 *	395,034,383.46	220,069,082	182,865,989	10,425,079	2.64	17.5
	HARRIS UNIT 1	10-2046	80-S1 *	1,973,997,504.80	1,147,881,475	885,335,955	32,470,324	1.64	27.3
	HARRIS DISALLOWANCE	10-2046		(105,882,561.00)	(65,125,067)	(40,737,494)	(1,365,500)	1.29	29.8
	ROBINSON UNIT 2	07-2030	80-S1 *	325,883,169.07	180,438,626	148,703,375	11,090,384	3.40	13.4
	TOTAL STRUCTURES AND IMPROVEMENTS			2,931,589,080.31	1,661,172,778	1,347,646,479	61,587,896	2.10	21.9
322.00	REACTOR PLANT EQUIPMENT								
	BRUNSWICK UNIT 1	09-2036	55-R1.5 *	552,427,851.27	282,147,802	281,328,606	15,463,097	2.80	18.2
	BRUNSWICK UNIT 2	12-2034	55-R1.5 *	514,836,051.00	277,453,355	247,679,417	14,766,696	2.87	16.8
	HARRIS UNIT 1	10-2046	55-R1.5 *	1,067,049,592.28	372,876,607	726,184,473	29,088,178	2.73	29.0
	HARRIS DISALLOWANCE	10-2046		(132,409,445.00)	(81,456,314)	(50,953,131)	(1,707,926)	1.29	29.8
	ROBINSON UNIT 2	07-2030	55-R1.5 *	437,677,114.79	247,932,724	194,121,162	14,894,298	3.40	13.0
	TOTAL REACTOR PLANT EQUIPMENT			2,439,581,164.34	1,098,954,174	1,398,360,527	72,504,343	2.97	19.3
323.00	TURBOGENERATOR UNITS								
	BRUNSWICK UNIT 1	09-2036	50-S0 *	205,874,639.67	98,308,509	111,683,623	6,303,023	3.06	17.7
	BRUNSWICK UNIT 2	12-2034	50-S0 *	169,049,172.46	80,119,611	92,310,545	5,619,890	3.32	16.4
	HARRIS UNIT 1	10-2046	50-S0 *	412,001,293.36	168,351,581	256,009,751	10,234,222	2.48	25.0
	HARRIS DISALLOWANCE	10-2046		(610,466.00)	(375,550)	(234,916)	(7,874)	1.29	29.8
	ROBINSON UNIT 2	07-2030	50-S0 *	187,789,082.81	68,174,819	121,492,155	9,468,887	5.04	12.8
	TOTAL TURBOGENERATOR UNITS			974,103,722.30	414,578,970	581,261,158	31,618,148	3.25	18.4
324.00	ACCESSORY ELECTRIC EQUIPMENT								
	BRUNSWICK UNIT 1	09-2036	55-R2.5 *	173,454,241.64	53,228,293	123,695,033	6,539,782	3.77	18.9
	BRUNSWICK UNIT 2	12-2034	55-R2.5 *	187,044,131.79	86,673,084	104,111,930	5,989,617	3.20	17.4
	HARRIS UNIT 1	10-2046	55-R2.5 *	785,605,209.04	430,421,839	368,451,526	14,406,529	1.86	25.6
	HARRIS DISALLOWANCE	10-2046		(258,837,664.66)	(158,002,697)	(98,834,968)	(3,312,904)	1.29	29.8
	ROBINSON UNIT 2	07-2030	55-R2.5 *	142,887,816.39	71,593,853	72,722,843	5,491,097	3.84	13.2
	TOTAL ACCESSORY ELECTRIC EQUIPMENT			1,022,153,736.20	483,914,372	570,146,364	29,114,121	2.85	19.6
325.00	MISCELLANEOUS PLANT EQUIPMENT								
	BRUNSWICK UNIT 1	09-2036	50-R1 *	163,752,380.50	61,517,614	105,509,814	5,835,335	3.56	18.1
	BRUNSWICK UNIT 2	12-2034	50-R1 *	64,019,501.47	27,867,047	37,432,946	2,254,714	3.52	18.6
	HARRIS UNIT 1	10-2046	80-R1 *	228,506,611.50	100,669,973	134,691,837	5,389,214	2.36	25.0
	HARRIS DISALLOWANCE	10-2046		(55,577,154.00)	(34,190,235)	(21,386,919)	(716,880)	1.29	29.8
	ROBINSON UNIT 2	07-2030	50-R1 *	154,899,130.76	44,223,007	112,225,115	8,696,577	5.61	12.9
	TOTAL MISCELLANEOUS PLANT EQUIPMENT			555,600,570.23	200,087,406	368,472,793	21,458,960	3.86	17.2
	TOTAL NUCLEAR PRODUCTION PLANT			7,923,028,273.38	3,858,707,701	4,125,887,321	216,283,468	2.73	
	HYDRAULIC PRODUCTION PLANT								

Docket # 18-0318-E

V-5

Duke Energy Progress
December 31, 2015

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 56 of 317

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (10)	
							AMOUNT (8)	RATE (9)=(8)/(5)		
331.00	STRUCTURES AND IMPROVEMENTS									
	BLEWETT	06-2055	110-R2 *	(45)	4,183,330.13	1,945,439	4,120,390	113,136	2.70	36.1
	MARSHALL	06-2035	110-R2 *	(17)	1,499,633.75	(95,043)	1,849,849	102,341	6.82	18.1
	TILLERY	06-2055	110-R2 *	(17)	2,587,756.83	1,260,008	2,233,464	62,717	2.42	35.6
	WALTERS	06-2034	110-R2 *	(7)	3,405,808.51	1,763,948	1,870,267	109,234	3.21	17.1
	TOTAL STRUCTURES AND IMPROVEMENTS				11,676,729.22	4,884,352	10,073,970	387,438	3.32	26.0
332.00	RESERVOIRS, DAMS AND WATERWAY									
	BLEWETT	06-2055	120-R3 *	(45)	8,275,323.29	5,016,724	6,982,494	193,609	2.34	36.1
	MARSHALL	06-2035	120-R3 *	(17)	3,829,716.68	2,129,273	2,351,496	128,297	3.35	18.3
	TILLERY	06-2055	120-R3 *	(15)	6,859,608.78	4,577,485	4,682,987	128,998	1.86	36.3
	WALTERS	06-2034	120-R3 *	(7)	29,533,145.47	16,665,010	14,935,456	665,566	2.93	17.3
	TOTAL RESERVOIRS, DAMS AND WATERWAY				48,497,794.22	28,388,492	28,952,433	1,316,460	2.71	22.0
333.00	WATER WHEELS, TURBINES AND GENERATORS									
	BLEWETT	06-2055	70-R1.5 *	(45)	7,082,284.69	(434,525)	10,703,838	351,995	4.97	30.4
	MARSHALL	06-2035	70-R1.5 *	(17)	5,865,247.45	3,784,108	3,078,231	178,347	3.04	17.3
	TILLERY	06-2055	70-R1.5 *	(35)	13,608,870.56	740,215	17,631,760	534,184	3.93	33.9
	WALTERS	06-2034	70-R1.5 *	(7)	4,024,693.44	2,182,927	2,123,495	128,847	3.20	16.5
	TOTAL WATER WHEELS, TURBINES AND GENERATORS				30,581,096.14	6,272,726	33,537,324	1,193,373	3.60	28.1
334.00	ACCESSORY ELECTRIC EQUIPMENT									
	BLEWETT	06-2055	60-S1 *	(45)	7,366,884.27	566,787	10,115,206	289,165	3.93	35.0
	MARSHALL	06-2035	60-S1 *	(17)	1,179,515.99	699,960	681,074	41,324	3.50	16.5
	TILLERY	06-2055	60-S1 *	(35)	3,125,897.08	877,563	3,342,290	108,291	3.46	30.9
	WALTERS	06-2034	60-S1 *	(7)	13,947,316.32	1,291,573	13,632,055	791,692	5.68	17.2
	TOTAL ACCESSORY ELECTRIC EQUIPMENT				25,619,613.66	3,434,872	27,770,625	1,230,472	4.80	22.6
335.00	MISCELLANEOUS PLANT EQUIPMENT									
	BLEWETT	06-2055	55-S0.5 *	(45)	1,272,690.93	344,680	1,500,722	49,710	3.91	30.2
	MARSHALL	06-2035	55-S0.5 *	(17)	193,284.70	51,172	174,971	18,223	5.29	17.1
	TILLERY	06-2055	55-S0.5 *	(35)	1,103,355.05	539,646	949,883	30,529	2.77	31.1
	WALTERS	06-2034	55-S0.5 *	(7)	1,437,259.49	381,952	1,155,916	70,224	4.69	16.5
	TOTAL MISCELLANEOUS PLANT EQUIPMENT				4,006,690.17	1,317,449	3,781,492	160,686	4.01	23.5
336.00	ROADS, RAILROADS, AND BRIDGES									
	MARSHALL	06-2035	75-R3 *	(17)	12,946.58	8,487	6,661	374	2.89	17.8
	WALTERS	06-2034	75-R3 *	(7)	8,258.48	8,206	631	46	0.59	12.9
	TOTAL ROADS, RAILROADS, AND BRIDGES				21,205.06	16,693	7,292	420	1.99	17.2
	TOTAL HYDRAULIC PRODUCTION PLANT				120,402,948.47	44,314,585	104,123,136	4,288,852	3.56	
	OTHER PRODUCTION PLANT									
341.00	STRUCTURES AND IMPROVEMENTS									
	ASHEVILLE IC TURBINE	06-2039	50-S2 *	(3)	31,682,402.92	13,578,010	19,054,665	933,567	2.95	30.1
	BLEWETT IC TURBINES	06-2034	50-S2 *	(7)	979,797.44	544,222	99,161	13,281	1.36	7.5
	DARLINGTON IC TURBINE UNITS 1-11	06-2020	50-S2 *	(7)	204,580.09	218,901	0	0	-	-
	DARLINGTON IC TURBINE UNITS 12 AND 13	06-2037	50-S2 *	(7)	8,325,692.35	8,573,988	334,553	16,478	0.20	20.3
	H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	50-S2 *	(4)	8,836,119.07	4,137,764	5,651,680	235,272	2.65	21.5
	H.F. LEE IC TURBINES (WAYNE COUNTY UNIT 14)	06-2049	50-S2 *	(4)	1,356,819.84	289,323	1,121,770	37,236	2.74	30.1
	SMITH IC TURBINES (RICHMOND COUNTY)	06-2041	50-S2 *	(8)	19,264,702.75	6,849,773	12,992,671	564,492	2.93	23.0
	SUTTON IC TURBINES	06-2017	50-S2 *	(20)	3,006,621.04	3,607,945	0	0	-	-
	WEATHERSPOON IC TURBINES	06-2024	50-S2 *	(22)	3,462,577.63	3,782,183	442,162	62,985	1.82	7.0
	SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	50-S2 *	(4)	47,694,242.52	39,177,425	10,424,587	448,880	0.94	28.2
	SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	50-S2 *	(7)	40,103,160.35	5,835,909	37,074,472	1,158,105	2.89	32.0
	SUTTON COMBINED CYCLE	06-2053	50-S2 *	(3)	12,570,663.41	12,328,494	15,276,277	449,056	3.57	34.0
	H.F. LEE COMBINED CYCLE (WAYNE COUNTY)	06-2052	50-S2 *	(6)	23,109,853.73	7,418,222	17,068,683	559,956	2.42	30.5
	TOTAL STRUCTURES AND IMPROVEMENTS				200,588,233.14	92,090,120	116,941,201	4,479,228	2.23	25.6

GAH/EE/Hem/ing

VI-6

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2016	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL AMOUNT	CALCULATED ANNUAL ACCRUAL RATE	COMPOSITE REMAINING LIFE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(8)/(5)	(10)
342.00	FUEL HOLDERS, PRODUCERS AND ACCESSORIES								
ASHEVILLE IC TURBINE	06-2039	50-R2.5	(3)	5,029,021.76	2,805,235	2,374,658	113,214	2.25	21.0
BLEWETT IC TURBINES	06-2024	50-R2.5	(7)	413,479.62	385,392	57,032	7,689	1.86	71.4
DARLINGTON IC TURBINE UNITS 1-11	06-2020	50-R2.5	(7)	5,601,525.91	5,993,533	0	0	-	-
DARLINGTON IC TURBINE UNITS 12 AND 13	06-2037	50-R2.5	(7)	7,356,988.17	5,879,922	1,991,980	101,178	1.38	19.7
H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	50-R2.5	(4)	7,250,198.61	3,191,240	4,348,966	200,645	2.77	21.7
H.F. LEE IC TURBINES (WAYNE COUNTY UNIT 14)	06-2049	50-R0.5	(4)	1,461,176.80	320,346	1,159,280	43,642	2.99	27.5
SMITH IC TURBINES (RICHMOND COUNTY)	06-2041	50-R2.5	(3)	8,439,158.92	2,905,750	5,766,584	257,416	3.05	22.5
SUTTON IC TURBINES	06-2017	50-R2.5	(20)	554,991.82	665,990	0	0	-	-
WEATHERSPOON IC TURBINES	06-2024	50-R2.5	(22)	1,471,357.77	1,183,984	611,072	81,944	5.57	7.5
SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	50-R2.5	(7)	13,247,466.84	5,114,247	8,663,119	369,221	2.79	23.5
SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	50-R2.5	(7)	22,575,250.21	3,212,104	20,943,414	660,225	2.92	21.7
SUTTON COMBINED CYCLE	06-2053	50-R2.5	(3)	20,443,654.24	721,150	20,335,814	604,730	2.96	28.6
H.F. LEE COMBINED CYCLE (WAYNE COUNTY)	06-2052	50-R2.5	(9)	25,323,833.69	1,180,171	25,663,093	785,364	31.0	38.7
TOTAL FUEL HOLDERS, PRODUCERS AND ACCESSORIES				119,168,036.36	33,559,164	91,975,012	3,225,268	2.71	28.5
343.00	PRIME MOVERS								
ASHEVILLE IC TURBINE	06-2039	35-S0	(3)	37,484,931.08	16,474,743	22,134,736	1,193,688	3.18	18.5
BLEWETT IC TURBINES	06-2024	35-S0	(7)	8,455,727.27	6,914,719	2,132,909	318,183	3.76	87.7
DARLINGTON IC TURBINE UNITS 1-11	06-2020	35-S0	(7)	28,027,601.92	10,901,680	19,087,854	5,609,948	20.02	21.4
DARLINGTON IC TURBINE UNITS 12 AND 13	06-2037	35-S0	(7)	38,958,379.14	5,864,244	35,821,222	2,095,867	5.93	17.8
H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	35-S0	(4)	121,712,253.32	38,519,820	88,060,923	4,646,414	3.82	19.0
H.F. LEE IC TURBINES (WAYNE COUNTY UNIT 14)	06-2049	35-S0	(4)	61,526,436.54	12,487,626	51,499,868	2,127,160	3.64	24.2
SMITH IC TURBINES (RICHMOND COUNTY)	06-2041	35-S0	(3)	166,728,991.36	10,133,506	181,968,367	9,193,280	5.51	19.8
SUTTON IC TURBINES	06-2017	35-S0	(20)	5,237,022.82	6,284,427	0	0	-	-
WEATHERSPOON IC TURBINES	06-2024	35-S0	(22)	12,482,977.02	14,811,291	417,941	60,687	0.49	6.9
SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	35-S0	(4)	114,327,816.53	12,416,080	131,317,009	6,592,620	5.77	19.9
SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	35-S0	(7)	298,972,032.94	26,995,705	292,904,370	11,476,899	3.84	23.5
SUTTON COMBINED CYCLE	06-2053	35-S0	(3)	357,643,897.26	19,377,420	348,995,794	12,862,160	3.69	27.1
H.F. LEE COMBINED CYCLE (WAYNE COUNTY)	06-2052	35-S0	(9)	442,951,418.35	2,661,682	466,846,921	17,711,693	4.00	25.4
TOTAL PRIME MOVERS				1,694,509,485.56	138,763,673	1,641,083,914	73,888,599	4.36	22.2
343.10	PRIME MOVERS - ROTABLE PARTS								
SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	5-L0.5	(9)	38,982,429.34	(745,399)	24,134,857	5,258,139	13.49	4.8
SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	5-L0.5	(4)	33,743,289.71	3,836,901	16,409,073	5,118,174	15.17	3.2
SUTTON COMBINED CYCLE	06-2053	5-L0.5	(4)	29,483,115.12	2,703,258	14,986,631	4,329,383	14.68	3.5
H.F. LEE COMBINED CYCLE (WAYNE COUNTY)	06-2052	5-L0.5	(4)	56,655,636.57	849,191	33,744,201	8,318,400	14.68	4.1
TOTAL PRIME MOVERS - ROTABLE PARTS				158,864,470.74	6,043,941	89,274,742	23,024,096	14.49	3.3
344.00	GENERATORS								
ASHEVILLE IC TURBINE	06-2039	55-R2	(8)	7,588,476.07	3,338,235	4,488,195	215,237	2.83	20.9
BLEWETT IC TURBINES	06-2024	55-R2	(7)	1,988,284.95	2,147,348	(19,883)	0	-	-
DARLINGTON IC TURBINE UNITS 1-11	06-2020	55-R2	(7)	17,529,774.65	11,757,252	6,999,607	2,025,552	11.55	31.5
DARLINGTON IC TURBINE UNITS 12 AND 13	06-2037	55-R2	(7)	17,012,097.35	5,173,864	13,029,080	675,072	3.97	19.3
H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	55-R2	(4)	22,068,501.33	9,068,025	13,883,216	640,490	2.90	21.7
H.F. LEE IC TURBINES (WAYNE COUNTY UNIT 14)	06-2049	55-R2	(4)	13,001,920.19	2,468,562	11,053,435	370,423	2.85	29.8
SMITH IC TURBINES (RICHMOND COUNTY)	06-2041	55-R2	(3)	33,047,298.83	(6,777,121)	40,815,838	1,807,476	3.67	22.6
SUTTON IC TURBINES	06-2017	55-R2	(20)	1,339,614.01	1,607,537	0	0	-	-
WEATHERSPOON IC TURBINES	06-2024	55-R2	(22)	2,095,743.68	2,556,807	0	0	-	-
SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	55-R2	(4)	40,447,296.11	31,229,285	10,835,903	451,449	1.12	24.0
SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	55-R2	(7)	31,514,726.56	4,782,772	28,937,986	913,158	2.90	31.7
SUTTON COMBINED CYCLE	06-2053	55-R2	(3)	44,540,349.56	2,330,270	43,546,290	1,298,118	2.91	32.5
H.F. LEE COMBINED CYCLE (WAYNE COUNTY)	06-2052	55-R2	(8)	55,134,783.67	2,733,647	55,709,294	1,708,280	3.10	32.4
TOTAL GENERATORS				287,318,877.26	72,416,483	229,276,901	10,105,255	3.52	22.7
344.10	GENERATORS - SOLAR								
CAMP LEJUNE	06-2040	25-S2.5	(9)	15,444,624.09	630,429	16,204,212	783,569	5.07	20.7
FAYETTEVILLE	06-2040	25-S2.5	(12)	30,090,387.52	1,259,449	33,561,785	1,622,910	5.22	20.7
ELM CITY	06-2041	25-S2.5	(17)	47,680,793.56	1,417,265	54,369,264	2,507,807	5.26	21.7
WARSAW	06-2040	25-S2.5	(13)	84,978,537.10	3,980,750	92,644,997	4,479,932	5.27	20.7
TOTAL GENERATORS - SOLAR				179,194,342.27	6,687,892	196,780,258	9,394,218	5.24	20.9

Gannett Fleming

VI-7

Duke Energy Progress
December 31, 2016

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 58 of 317

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (10)
							AMOUNT (8)	RATE (9) = (8)/(5)	
340.00									
ACCESSORY ELECTRIC EQUIPMENT									
ASHEVILLE IC TURBINE	06-2039	50-R1.5	(8)	10,953,371.69	3,034,093	8,247,880	401,600	3.67	20.6
BLEWETT IC TURBINES	06-2004	50-R1.5	(7)	1,420,146.80	1,396,430	123,127	18,888	1.33	14.4
DARLINGTON IC TURBINE UNITS 1-11	06-2020	50-R1.5	(7)	6,141,965.15	4,815,036	1,756,867	508,799	8.28	21.5
DARLINGTON IC TURBINE UNITS 12 AND 13	06-2037	50-R1.5	(7)	10,335,092.10	3,729,484	7,329,064	390,541	3.79	18.6
H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	50-R1.5	(4)	19,926,892.16	8,095,442	12,528,318	598,988	3.01	24.1
H.F. LEE IC TURBINES (WAYNE COUNTY UNIT 14)	06-2049	50-R1.5	(4)	10,599,164.94	2,066,706	8,956,426	311,918	2.94	22.7
SMITH IC TURBINES (RICHMOND COUNTY)	06-2041	50-R1.5	(3)	28,962,744.95	10,227,426	19,604,201	887,356	3.06	22.1
SUTTON IC TURBINES	06-2017	50-R1.5	(2)	2,396,809.65	2,536,172	0	0	-	7.1
WEATHERSPOON IC TURBINES	06-2024	50-R1.5	(2)	2,926,257.02	1,682,652	1,887,381	260,450	9.00	7.2
SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	50-R1.5	(4)	21,352,302.64	6,335,290	15,871,105	689,172	3.23	23.0
SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	50-R1.5	(7)	51,089,810.82	7,011,858	47,654,240	1,565,272	3.06	23.0
SUTTON COMBINED CYCLE	06-2053	50-R1.5	(8)	61,396,487.31	287,934	62,950,397	1,955,403	3.18	32.2
H.F. LEE COMBINED CYCLE (WAYNE COUNTY)	06-2052	50-R1.5	(5)	76,256,662.40	2,363,064	78,479,538	2,505,818	3.29	31.6
TOTAL ACCESSORY ELECTRIC EQUIPMENT				303,567,457.63	53,681,586	265,498,604	10,092,045	3.32	26.3
345.10									
ACCESSORY ELECTRIC EQUIPMENT - SOLAR									
CAMP LEJUNE	06-2040	25-S2.5	(9)	2,761,117.30	107,982	2,901,636	139,702	5.06	20.8
FAYETTEVILLE	06-2049	25-S2.5	(12)	533,290.74	20,584	576,668	27,885	5.23	20.7
ELM CITY	06-2041	25-S2.5	(17)	133,458.18	4,531	151,615	7,821	5.85	21.6
WARSAW	06-2040	25-S2.5	(13)	1,258,878.46	80,427	1,372,106	66,349	5.27	20.7
TOTAL ACCESSORY ELECTRIC EQUIPMENT - SOLAR				4,686,714.68	183,524	5,002,025	240,957	5.14	20.8
346.00									
MISCELLANEOUS PLANT EQUIPMENT									
ASHEVILLE IC TURBINE	06-2039	40-S1.5	(3)	2,514,555.35	948,333	1,641,659	87,095	3.46	18.8
BLEWETT IC TURBINES	06-2023	40-S1.5	(7)	204,914.55	56,711	162,547	22,170	10.82	7.3
DARLINGTON IC TURBINE UNITS 1-11	06-2020	40-S1.5	(7)	35,147.08	36,771	806	240	6.88	3.5
DARLINGTON IC TURBINE UNITS 12 AND 13	06-2037	40-S1.5	(7)	1,499,222.76	744,824	828,344	43,416	2.90	19.1
H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	40-S1.5	(4)	1,316,904.66	790,768	578,813	28,693	2.18	20.2
H.F. LEE IC TURBINES (WAYNE COUNTY UNIT 14)	06-2049	40-S1.5	(4)	1,125,769.23	379,542	791,258	29,390	2.61	26.9
SMITH IC TURBINES (RICHMOND COUNTY)	06-2041	40-S1.5	(3)	4,123,777.40	(427,383)	4,674,874	224,896	5.45	23.8
SUTTON IC TURBINES	06-2017	40-S1.5	(2)	110,334.97	132,402	0	0	-	7.4
WEATHERSPOON IC TURBINES	06-2024	40-S1.5	(2)	727,233.81	139,545	747,680	100,902	13.87	23.5
SMITH COMBINED CYCLE POWER BLOCK 4 (RICHMOND COUNTY)	06-2042	40-S1.5	(7)	4,254,052.48	2,018,576	2,405,639	102,349	2.41	28.8
SMITH COMBINED CYCLE POWER BLOCK 5 (RICHMOND COUNTY)	06-2051	40-S1.5	(7)	8,419,845.29	1,344,252	7,664,983	266,482	3.16	31.0
SUTTON COMBINED CYCLE	06-2053	40-S1.5	(8)	8,141,346.78	274,773	8,110,814	261,936	3.22	29.6
H.F. LEE COMBINED-CYCLE (WAYNE COUNTY)	06-2052	40-S1.5	(8)	10,210,761.45	826,601	9,889,806	339,224	3.04	25.0
TOTAL MISCELLANEOUS PLANT EQUIPMENT				42,683,865.71	7,295,715	37,605,253	1,589,793	3.68	25.0
TOTAL OTHER PRODUCTION PLANT				2,990,581,483.35	410,722,088	2,675,129,810	18,556,451	6.35	
TOTAL PRODUCTION				14,779,814,310.14	6,226,627,636	9,096,124,894	488,808,843	3.38	
TRANSMISSION PLANT									
352.00 STRUCTURES AND IMPROVEMENTS	60-R3		(10)	88,689,053.36	29,317,751	68,240,208	1,577,170	1.78	43.3
353.00 STATION EQUIPMENT	60-R1		(15)	971,202,894.89	216,992,354	899,890,975	18,443,987	1.90	48.8
354.00 TOWERS AND FIXTURES	70-R4		(88)	61,084,937.45	39,238,346	34,063,578	823,605	1.35	41.4
355.00 POLES AND FIXTURES	48-R1.5		(88)	670,881,000.76	259,674,636	616,016,469	14,969,208	2.22	41.2
356.00 OVERHEAD CONDUCTORS AND DEVICES	65-R2.5		(88)	464,668,522.67	183,425,125	420,643,954	8,092,483	1.74	52.0
358.00 UNDERGROUND CONDUCTOR AND DEVICES	45-S2.5		0	21,603,999.00	975,777	20,628,222	497,066	2.30	41.5
359.00 ROADS AND TRAILS	75-R3		0	312,522.87	59,871	252,552	1,066	1.37	59.2
TOTAL TRANSMISSION PLANT				2,281,172,011.00	729,683,962	2,059,737,958	44,407,785	1.95	
DISTRIBUTION PLANT									
361.00 STRUCTURES AND IMPROVEMENTS	60-R2		(15)	105,225,734.30	45,543,688	75,465,897	1,595,162	1.52	47.3
362.00 STATION EQUIPMENT	46-R1		(15)	582,697,649.20	185,295,094	484,807,203	13,576,047	2.33	35.7
364.00 POLES, TOWERS AND FIXTURES	45-R2.5		(100)	733,477,308.27	560,091,575	906,863,042	28,988,696	3.95	31.3
365.00 OVERHEAD CONDUCTORS AND DEVICES	44-R1.5		(30)	1,036,883,964.75	554,707,034	792,911,600	22,241,164	2.15	35.7
366.00 UNDERGROUND CONDUIT	45-S2.5		(15)	188,322,245.23	64,749,267	151,821,315	4,573,502	2.43	33.2

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (7)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (10)
							AMOUNT (8)	RATE (9)=(8)/(5)	
367.00 UNDERGROUND CONDUCTORS AND DEVICES		40-R2	(5)	1,034,475,800.68	565,387,456	520,812,135	18,179,311	1.76	28.8
368.00 LINE TRANSFORMERS		39-R2	(5)	980,271,849.91	345,281,367	684,004,075	24,875,306	2.54	27.6
369.00 SERVICES		42-R3	(10)	604,656,990.58	317,979,899	347,142,791	11,856,818	1.96	29.3
370.00 METERING EQUIPMENT		30-R4	(15)	3,934,745.51	1,737,846	2,787,111	133,987	3.41	20.8
370.01 METERS	12-2020	30-R4	(5)	191,151,343.71	125,911,435	74,797,476	19,645,945	10.28	3.6
370.02 METERS-UOF		15-S2.5	0	4,601,496.24	913,601	3,687,695	350,855	7.62	10.5
371.00 INSTALLATIONS ON CUSTOMERS' PREMISES		25-L1.5	(10)	278,952,768.57	241,626,973	65,221,073	3,203,065	11.5	28.4
373.00 STREET LIGHTING AND SIGNAL SYSTEMS		30-R1	(10)	191,965,374.51	10,866,360	200,355,552	7,434,487	3.87	26.9
TOTAL DISTRIBUTION PLANT				5,936,416,871.46	3,020,101,804	4,310,676,985	156,653,365	2.54	
GENERAL PLANT									
390.00 STRUCTURES AND IMPROVEMENTS		45-R1.5	(5)	130,945,462.70	28,294,901	109,197,835	3,172,226	2.42	34.4
391.00 OFFICE FURNITURE AND EQUIPMENT		FULLY ACCRUED		9,222,470.50	9,222,471	0	0	-	-
		15-SQ	0	7,547,413.88	4,131,000	3,416,414	20,593,739	6.67	6.0
TOTAL OFFICE FURNITURE AND EQUIPMENT				16,769,884.38	13,353,471	3,416,414	503,719	3.00	6.6
391.10 OFFICE FURNITURE AND EQUIPMENT - EDP		FULLY ACCRUED		5,569,448.26	5,569,448	0	0	-	-
		8-SQ	0	33,497,447.88	19,232,000	20,265,448	4,185,579	12.50	4.8
TOTAL OFFICE FURNITURE AND EQUIPMENT • EDP				39,066,896.14	18,801,448	20,265,448	4,185,579	10.71	4.8
392.00 TRANSPORTATION EQUIPMENT		11-L2	10	101,478,640.37	30,508,193	60,822,583	10,445,780	10.29	5.8
393.00 STORES EQUIPMENT		FULLY ACCRUED		697,880.04	697,860	0	0	-	-
		20-SQ	0	2,895,001.58	1,441,200	1,453,802	144,692	5.00	10.0
TOTAL STORES EQUIPMENT				3,592,861.62	2,139,060	1,453,802	144,692	4.03	10.0
394.00 TOOLS, SHOPS AND GARAGE EQUIPMENT		FULLY ACCRUED		4,723,328.76	4,723,329	0	0	-	-
		20-SQ	0	45,455,118.50	15,300,000	29,855,118	2,257,625	5.00	13.2
TOTAL TOOLS, SHOPS AND GARAGE EQUIPMENT				49,878,447.26	20,023,329	29,855,118	2,257,625	4.53	13.2
395.00 LABORATORY EQUIPMENT		15-SQ	0	7,231,552.66	3,585,000	3,646,553	482,239	6.67	7.6
396.00 POWER OPERATED EQUIPMENT		12-S6	0	3,369,544.86	1,696,976	1,672,569	201,686	5.99	8.3
397.00 COMMUNICATION EQUIPMENT		FULLY ACCRUED		137,363,591.78	137,336,757	26,835	0	-	-
		10-SQ	0	88,790,650.99	43,630,000	45,160,651	8,876,500	10.00	5.3
TOTAL TOOLS, SHOPS AND GARAGE EQUIPMENT				226,154,242.77	180,966,757	45,187,486	8,876,500	3.92	5.1
398.00 MISCELLANEOUS EQUIPMENT		FULLY ACCRUED		3,204,302.23	3,204,131	171	0	-	-
		20-SQ	0	23,669,300.73	15,675,000	7,994,301	1,184,283	5.00	6.8
TOTAL MISCELLANEOUS EQUIPMENT				26,873,602.96	18,879,131	7,994,472	1,184,283	4.41	6.8
TOTAL GENERAL PLANT				605,361,135.72	318,248,265	283,512,288	31,454,329	5.20	

Cammett Fleming

V4.9

Duke Energy Progress
December 31, 2015

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 60 of 317

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL AMOUNT (8)	RATE (9)=(8)/(5)	COMPOSITE REMAINING LIFE (10)	
DEPRECIABLE LAND RIGHTS										
310.00	LAND RIGHTS									
	ASHEVILLE UNIT 1	12-2027	100-R4	0	919,201.95	919,202	0	0	-	
	MAYO UNIT 1	06-2035	100-R4	0	3,577,117.54	3,066,287	510,631	27,822	0.78	
	ROXBORO UNIT 1	06-2028	100-R4	0	1,827,202.76	1,827,203	0	0	-	
	ROXBORO UNIT 3	06-2033	100-R4	0	3,037,934.25	3,037,934	0	0	-	
	TOTAL ACCOUNT 310				9,361,456.50	8,850,626	510,631	27,822	0.30	0.0
320.00	LAND RIGHTS									
	HARRIS UNIT 1	10-2046	100-R4	0	49,809,293.03	32,123,066	17,686,227	600,551	1.21	29.5
	ROBINSON UNIT 2	07-2030	100-R4	0	315,919.74	315,920	0	0	-	0.0
	TOTAL LAND RIGHTS				50,125,212.77	32,438,986	17,686,227	600,551	1.20	29.5
320.10	RIGHTS OF WAY									
	BRUNSWICK UNIT 1	08-2036	100-R4	0	9,724.11	8,015	1,709	87	0.89	19.6
	BRUNSWICK UNIT 2	12-2034	100-R4	0	51,363.07	49,794	1,569	88	0.17	17.8
	ROBINSON UNIT 2	07-2030	100-R4	0	6,141.10	6,141	0	0	-	-
	TOTAL RIGHTS OF WAY				67,228.28	63,950	3,278	175	0.26	18.7
	TOTAL ACCOUNT 320				50,192,441.05	32,502,936	17,689,505	600,726	1.20	29.4
330.00	LAND RIGHTS									
	WALTERS	06-2034	110-R4	0	80,796.94	46,108	34,689	2,205	2.73	15.7
330.10	RIGHTS OF WAY									
	BLEWETT	06-2055	110-R4	0	9,598.14	5,773	3,825	213	2.22	18.0
	MARSHALL	06-2033	110-R4	0	3,728.53	2,333	1,396	105	2.82	13.3
	TILLERY	06-2055	110-R4	0	19,764.49	12,401	7,363	879	1.41	26.40
	WALTERS	06-2034	110-R4	0	33,333.15	18,799	14,534	908	2.71	16.1
	TOTAL RIGHTS OF WAY				66,424.31	39,306	27,118	1,500	2.26	18.1
	TOTAL ACCOUNT 330				147,221.25	85,414	61,807	3,705	2.52	16.7
340.00	LAND RIGHTS									
	H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	60-R4	0	2,048,655.08	899,814	1,158,841	51,427	2.51	22.5
340.10	RIGHTS OF WAY									
	H.F. LEE IC TURBINES (WAYNE COUNTY UNITS 10-13)	06-2040	60-R4	0	2,532,367.27	920,863	1,611,504	69,974	2.76	23.0
	TOTAL ACCOUNT 340.1				4,581,022.35	1,810,677	2,770,345	121,401	2.65	22.8
350.10	RIGHTS OF WAY		75-R3	0	169,323,400.45	64,826,124	104,697,276	1,947,290	1.15	53.8
360.00	LAND RIGHTS		65-R3	0	107,521.37	14,979	92,542	1,603	1.49	57.7
360.10	RIGHTS OF WAY		65-R3	0	23,133,065.13	11,125,480	12,007,585	296,115	1.28	40.6
389.10	RIGHTS OF WAY		60-R3	0	51,783.33	(699,107)	750,890	26,672	51.51	28.2
	TOTAL DEPRECIABLE LAND RIGHTS				256,897,911.43	116,317,129	136,560,781	3,025,334	1.18	
RESERVE ADJUSTMENT FOR AMORTIZATION										
391.00	OFFICE FURNITURE AND EQUIPMENT					(15,540,349)		3,108,070	**	
393.00	STORES EQUIPMENT					(868,993)		172,193	**	
394.00	TOOLS, SHOPS AND GARAGE EQUIPMENT					(10,258,394)		2,051,679	**	
395.00	LABORATORY EQUIPMENT					268,549		(53,710)	**	
397.00	COMMUNICATION EQUIPMENT					(51,598,415)		10,319,683	**	
398.00	MISCELLANEOUS EQUIPMENT					(7,874,615)		1,574,923	**	
	RESERVE ADJUSTMENT FOR AMORTIZATION					(85,864,186)		47,172,808		
	TOTAL DEPRECIABLE ELECTRIC PLANT				23,859,662,239.95	10,327,114,609	15,866,632,878	752,522,494	8.15	

Gannett Fleming

VI-10

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL AMOUNT (8)	CALCULATED ANNUAL ACCRUAL RATE (9) = (8)/(5)	COMPOSITE REMAINING LIFE (10)
NONDEPRECIABLE AND ACCOUNTS NOT STUDIED									
NONDEPRECIABLE ACCOUNTS									
301.00	ORGANIZATION			760,394.52	177,329				
302.00	FRANCHISE			55,182,325.16	26,193,418				
303.00	SOFTWARE			352,433,607.31	246,493,070				
310.00	LAND			18,406,164.98	107,237				
317.00	ARO - STEAM			829,625,595.14	152,025,194				
320.00	LAND			18,168,386.28	(177)				
321.00	STRUCTURES AND IMPROVEMENTS - CAPITAL LEASE			1,917,602.90					
326.00	ARO - NUCLEAR			876,137,782.45	164,217,957				
330.00	LAND			2,681,695.37	2				
337.00	ARO - HYDRO			536,917.81	47,874				
340.00	LAND			5,413,242.23	71,680				
341.00	STRUCTURES AND IMPROVEMENTS - CAPITAL LEASE			110,728,879.00					
347.00	ARO - OTHER PRODUCTION			15,015,891.00	562,316				
350.00	LAND			13,477,188.15					
352.00	STRUCTURES AND IMPROVEMENTS - CAPITAL LEASE			18,688,795.66					
360.00	LAND			40,709,251.10	(88)				
389.00	LAND			7,911,094.85	(2)				
390.00	STRUCTURES AND IMPROVEMENTS - CAPITAL LEASE			10,582,306.62					
399.00	ARO - GENERAL			2,717,587.67	1,587,137				
TOTAL NONDEPRECIABLE ACCOUNTS				2,377,964,709.20	591,482,946				
RETIRED PLANTS									
	ROBINSON UNIT 1			(174.89)	5,152,004				
	LEE UNIT 1				838,976				
	LEE UNIT 2				495,981				
	LEE UNIT 3				3,765,259				
	SUTTON UNIT 1				285,416				
	SUTTON UNIT 2				97,222				
	SUTTON UNIT 3				3,111,780				
	SUTTON FOSSIL COMMON			60,833.61	191,181				
	CAPE FEAR UNIT 1				56,212				
	CAPE FEAR UNIT 2				(24,619)				
	CAPE FEAR UNIT 3				(182,963)				
	CAPE FEAR UNIT 4				(2,069,853)				
	CAPE FEAR UNIT 5				513,268				
	CAPE FEAR UNIT 6				4,454,451				
	CAPE FEAR ICT				559,834				
	LEE ICT				(20,841)				
	MOREHEAD ICT				(13,612)				
	ROBINSON ICT				349,120				
	ROXBORO ICT				(146,504)				
	WEATHERSPOON UNIT 1				6,448,573				
	WEATHERSPOON UNIT 2				(495,131)				
	WEATHERSPOON UNIT 3				4,452,406				
TOTAL RETIRED PLANTS				60,658.72	27,731,360				

DUKE ENERGY PROGRESS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION RATES AS OF DECEMBER 31, 2016

ACCOUNT (1)	PROBABLE RETIREMENT DATE ¹ (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2016 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL AMOUNT (8)	CALCULATED ANNUAL ACCRUAL RATE (9)/(8)*(5) (9)	COMPOSITE REMAINING LIFE (10)
MISCELLANEOUS									
WEST GENERATING UNSPECIFIED STEAM NON-UTILITY					80,703				
HARRIS ACCELERATED DEPRECIATION					433,633,649				
CPL DECOMM QUALIFIED					93,111,355				
RATE DIFFERENCE					(38,796,550)				
ARO CONTRA COR					(25,235,987)				
CONTRA AFUDC NET					453,594				
ACCOUNT 369 RETIREMENT ADJUSTMENT				(114,091,541.60)	(114,091,542)				
OTHER (NO ACCOUNT ON 1085 PROVIDED)									
TOTAL MISCELLANEOUS				(114,091,541.60)	348,155,422				
TOTAL NONDEPRECIABLE AND ACCOUNTS NOT STUDIED				2,263,933,826.32	967,369,728				
TOTAL ELECTRIC PLANT				26,123,526,066.27	11,294,484,337				

¹ Curve shown is interim survivor curve. Each facility in the account is assigned an individual probable retirement year.

² 5 year Amortization of Adjusted Reserve related to implementation of Amortization Accounting.

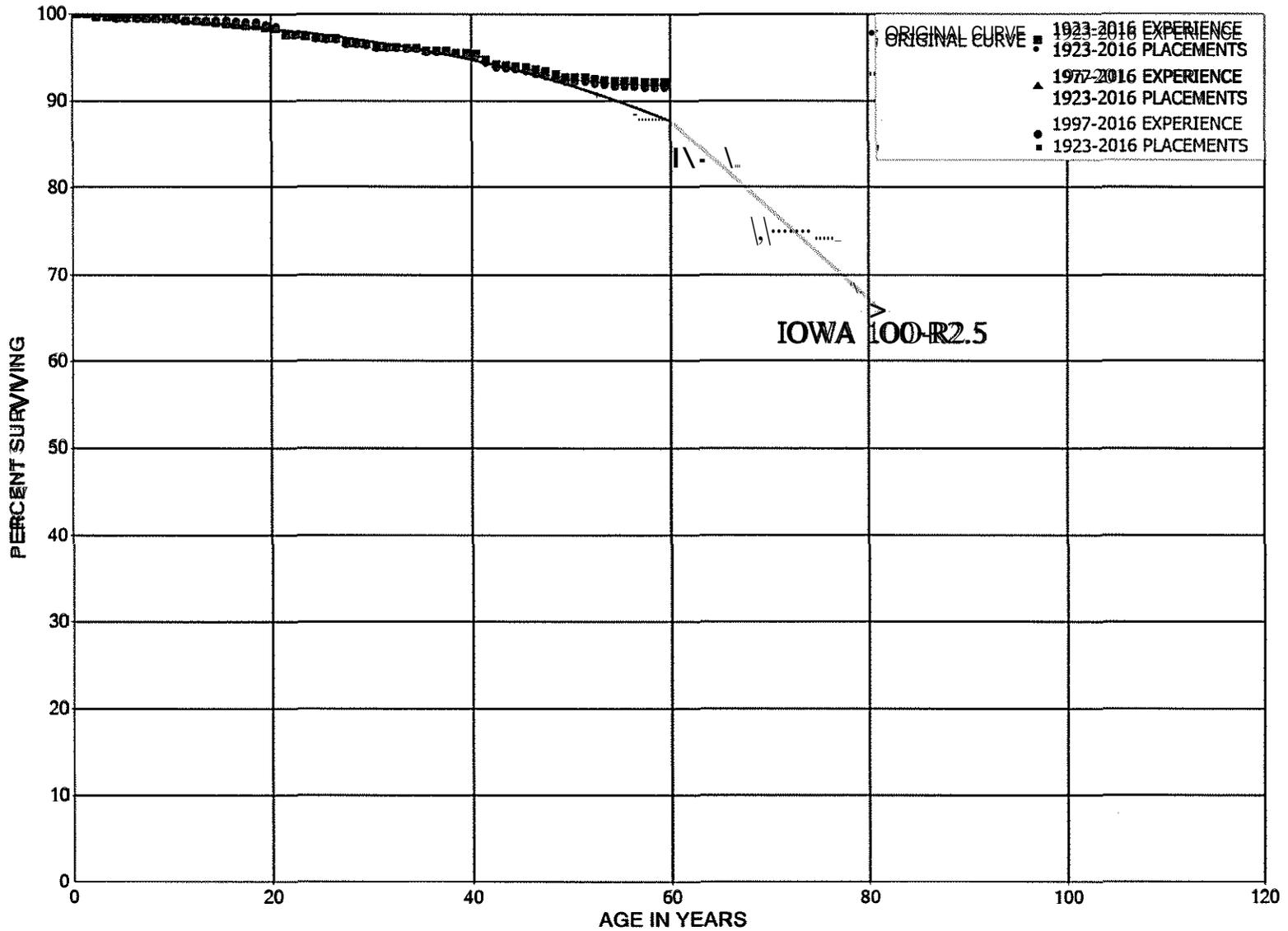
³ For additions to new subaccounts related to Account 392 Transportation Equipment the following survivor curves, net salvage estimates and depreciation rates should be utilized:

Subaccount	Life	Net Salvage	Depreciation Rate
Passenger Cars and Station Wagons	5-S2.5	\$	19.00
Light Trucks	6-L3	\$	15.83
Medium Trucks	8-L2	\$	11.88
Heavy Trucks	10-L2	\$	9.50
Heavy Trucks / Power Equipped	10-L2	\$	9.50
Tractors	13-L3	\$	7.38
Trailers	17-L0.5	\$	5.59



PART VII. SERVICE LIFE STATISTICS

DUKE ENERGY PROGRESS
ACCOUNT 311 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	556,526,636	57,175	0.0001	0.9999	100.00
0.5	546,836,371	3,088	0.0000	1.0000	99.99
1.5	520,769,252	1,691,038	0.0032	0.9968	99.99
2.5	495,336,731	6,988	0.0000	1.0000	99.66
3.5	489,972,566	971,566	0.0020	0.9980	99.66
4.5	471,038,184	5,595	0.0000	1.0000	99.47
5.5	479,189,487	12,475	0.0000	1.0000	99.46
6.5	473,758,844	216,145	0.0005	0.9995	99.46
7.5	413,032,907	48,151	0.0001	0.9999	99.42
8.5	364,971,104	30,168	0.0001	0.9999	99.40
9.5	306,506,044	31,833	0.0001	0.9999	99.40
10.5	289,088,594	711,383	0.0025	0.9975	99.39
11.5	252,213,544	3,555	0.0000	1.0000	99.14
12.5	235,512,442	212,495	0.0009	0.9991	99.14
13.5	236,024,773	102,237	0.0004	0.9996	99.05
14.5	227,004,055	473,847	0.0021	0.9979	99.01
15.5	219,299,273	134,039	0.0006	0.9994	98.80
16.5	215,807,703	233,186	0.0011	0.9989	98.74
17.5	215,349,088	42,089	0.0002	0.9998	98.63
18.5	214,470,462	444,882	0.0021	0.9979	98.61
19.5	212,592,951	272,415	0.0013	0.9987	98.41
20.5	208,778,028	1,317,406	0.0063	0.9937	98.28
21.5	198,852,048	107,459	0.0005	0.9995	97.66
22.5	197,521,548	479,943	0.0024	0.9976	97.61
23.5	196,622,834	269,614	0.0014	0.9986	97.37
24.5	194,860,143	184,077	0.0009	0.9991	97.24
25.5	193,535,390	28,470	0.0001	0.9999	97.15
26.5	192,529,820	1,034,956	0.0054	0.9946	97.13
27.5	187,240,411	99,289	0.0005	0.9995	96.61
28.5	182,551,294	181,689	0.0010	0.9990	96.56
29.5	178,969,320	497,749	0.0028	0.9972	96.46
30.5	176,737,941	87,626	0.0005	0.9995	96.20
31.5	182,739,258	51,380	0.0003	0.9997	96.15
32.5	179,092,998	75,043	0.0004	0.9996	96.12
33.5	95,875,341	39,676	0.0004	0.9996	96.08
34.5	92,294,568	283,272	0.0031	0.9969	96.04
35.5	89,761,680	6,124	0.0001	0.9999	95.75
36.5	82,141,113	58,230	0.0007	0.9993	95.74
37.5	77,172,757	120,507	0.0016	0.9984	95.67
38.5	76,609,050	42,061	0.0005	0.9995	95.52

DUKE ENERGY PROGRESS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	70,130,246	91,203	0.0013	0.9987	95.47
40.5	68,389,340	483,470	0.0071	0.9929	95.35
41.5	45,812,031	238,850	0.0052	0.9948	94.67
42.5	45,048,687	37,379	0.0008	0.9992	94.18
43.5	33,905,964	47,204	0.0014	0.9986	94.10
44.5	33,824,391	33,559	0.0010	0.9990	93.97
45.5	31,913,283	104,692	0.0033	0.9967	93.88
46.5	31,793,838	74,746	0.0024	0.9976	93.57
47.5	31,710,961	86,196	0.0027	0.9973	93.35
48.5	30,811,185	108,760	0.0035	0.9965	93.09
49.5	30,460,267	12,355	0.0004	0.9996	92.77
50.5	21,568,962	8,676	0.0004	0.9996	92.73
51.5	21,533,135	44,506	0.0021	0.9979	92.69
52.5	15,773,370	17,684	0.0011	0.9989	92.50
53.5	14,020,036	21,096	0.0015	0.9985	92.40
54.5	13,111,939		0.0000	1.0000	92.26
55.5	13,111,655	581	0.0000	1.0000	92.26
56.5	11,165,020	13,232	0.0012	0.9988	92.25
57.5	11,151,408		0.0000	1.0000	92.14
58.5	10,538,520		0.0000	1.0000	92.14
59.5	8,185,732		0.0000	1.0000	92.14
60.5	8,170,007	23,840	0.0029	0.9971	92.14
61.5	4,869,879		0.0000	1.0000	91.87
62.5	1,874,853		0.0000	1.0000	91.87
63.5	1,855,379		0.0000	1.0000	91.87
64.5	1,855,379		0.0000	1.0000	91.87
65.5	1,758,000		0.0000	1.0000	91.87
66.5	1,756,842		0.0000	1.0000	91.87
67.5	1,755,584		0.0000	1.0000	91.87
68.5	1,754,297		0.0000	1.0000	91.87
69.5	1,753,089		0.0000	1.0000	91.87
70.5	969,792		0.0000	1.0000	91.87
71.5	969,792		0.0000	1.0000	91.87
72.5	969,792		0.0000	1.0000	91.87
73.5	969,792		0.0000	1.0000	91.87
74.5	969,792		0.0000	1.0000	91.87
75.5	969,792		0.0000	1.0000	91.87
76.5	969,792		0.0000	1.0000	91.87
77.5	969,792		0.0000	1.0000	91.87
78.5	969,792		0.0000	1.0000	91.87

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 67 of 317

DUKE ENERGY PROGRESS
ACCOUNT 311 STRUCTURES AND IMPROVEMENTS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1923-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	969,792	5,407	0.0056	0.9944	91.87	
80.5	964,385		0.0000	1.0000	91.36	
81.5	964,385		0.0000	1.0000	91.36	
82.5	964,385		0.0000	1.0000	91.36	
83.5	964,385	1,114	0.0012	0.9988	91.36	
84.5	963,271		0.0000	1.0000	91.26	
85.5	959,030		0.0000	1.0000	91.26	
86.5	855,131		0.0000	1.0000	91.26	
87.5	855,131		0.0000	1.0000	91.26	
88.5	507,067		0.0000	1.0000	91.26	
89.5					91.26	

DUKE ENERGY PROGRESS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	480,570,289	29,237	0.0001	0.9999	100.00
0.5	474,256,722	2,297	0.0000	1.0000	99.99
1.5	459,691,433	1,690,927	0.0037	0.9963	99.99
2.5	435,969,638	4,653	0.0000	1.0000	99.63
3.5	444,285,707	962,881	0.0022	0.9978	99.62
4.5	439,080,756	599	0.0000	1.0000	99.41
5.5	448,531,079	5,103	0.0000	1.0000	99.41
6.5	443,482,937	216,070	0.0005	0.9995	99.41
7.5	382,777,414	9,260	0.0000	1.0000	99.36
8.5	336,556,030	27,276	0.0001	0.9999	99.36
9.5	278,104,942	20,025	0.0001	0.9999	99.35
10.5	265,846,484	697,449	0.0026	0.9974	99.34
11.5	228,993,155	3,340	0.0000	1.0000	99.08
12.5	214,597,728	193,358	0.0009	0.9991	99.08
13.5	215,374,294	101,879	0.0005	0.9995	98.99
14.5	209,570,510	472,608	0.0023	0.9977	98.94
15.5	201,912,844	132,339	0.0007	0.9993	98.72
16.5	202,008,569	232,886	0.0012	0.9988	98.66
17.5	201,636,252	41,039	0.0002	0.9998	98.54
18.5	201,648,528	437,792	0.0022	0.9978	98.52
19.5	199,778,538	267,533	0.0013	0.9987	98.31
20.5	197,446,953	1,295,453	0.0066	0.9934	98.18
21.5	188,450,957	105,777	0.0006	0.9994	97.53
22.5	188,446,186	473,030	0.0025	0.9975	97.48
23.5	187,742,880	264,979	0.0014	0.9986	97.23
24.5	187,189,855	183,365	0.0010	0.9990	97.10
25.5	188,382,605	28,054	0.0001	0.9999	97.00
26.5	187,433,022	1,034,765	0.0055	0.9945	96.99
27.5	185,272,919	99,289	0.0005	0.9995	96.45
28.5	180,583,803	179,689	0.0010	0.9990	96.40
29.5	177,101,207	485,749	0.0027	0.9973	96.30
30.5	174,882,987	87,626	0.0005	0.9995	96.04
31.5	180,885,561	50,120	0.0003	0.9997	95.99
32.5	177,241,848	66,946	0.0004	0.9996	95.96
33.5	94,033,496	33,676	0.0004	0.9996	95.93
34.5	91,277,237	263,664	0.0029	0.9971	95.89
35.5	88,763,957	2,124	0.0000	1.0000	95.62
36.5	81,147,390	58,230	0.0007	0.9993	95.61
37.5	76,179,034	117,507	0.0015	0.9985	95.55
38.5	75,618,327	39,061	0.0005	0.9995	95.40

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 69 of 317

DUKE ENERGY PROGRESS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	69,142,523	85,853	0.0012	0.9988	95.35
40.5	67,406,967	480,470	0.0071	0.9929	95.23
41.5	44,832,658	233,750	0.0052	0.9948	94.55
42.5	44,074,414	33,298	0.0008	0.9992	94.06
43.5	32,935,772	46,804	0.0014	0.9986	93.99
44.5	32,854,599	33,559	0.0010	0.9990	93.85
45.5	30,943,491	104,692	0.0034	0.9966	93.76
46.5	30,824,046	74,746	0.0024	0.9976	93.44
47.5	30,741,169	86,196	0.0028	0.9972	93.21
48.5	29,841,393	108,760	0.0036	0.9964	92.95
49.5	29,495,830	12,355	0.0004	0.9996	92.61
50.5	20,708,424	8,676	0.0004	0.9996	92.58
51.5	20,672,597	44,506	0.0022	0.9978	92.54
52.5	15,260,896	17,684	0.0012	0.9988	92.34
53.5	14,020,036	21,096	0.0015	0.9985	92.23
54.5	13,111,939		0.0000	1.0000	92.09
55.5	13,111,655	581	0.0000	1.0000	92.09
56.5	11,165,020	13,232	0.0012	0.9988	92.09
57.5	11,151,408		0.0000	1.0000	91.98
58.5	10,538,520		0.0000	1.0000	91.98
59.5	8,185,732		0.0000	1.0000	91.98
60.5	8,170,007	23,840	0.0029	0.9971	91.98
61.5	4,869,879		0.0000	1.0000	91.71
62.5	1,874,853		0.0000	1.0000	91.71
63.5	1,855,379		0.0000	1.0000	91.71
64.5	1,855,379		0.0000	1.0000	91.71
65.5	1,758,000		0.0000	1.0000	91.71
66.5	1,756,842		0.0000	1.0000	91.71
67.5	1,755,584		0.0000	1.0000	91.71
68.5	1,754,297		0.0000	1.0000	91.71
69.5	1,753,089		0.0000	1.0000	91.71
70.5	969,792		0.0000	1.0000	91.71
71.5	969,792		0.0000	1.0000	91.71
72.5	969,792		0.0000	1.0000	91.71
73.5	969,792		0.0000	1.0000	91.71
74.5	969,792		0.0000	1.0000	91.71
75.5	969,792		0.0000	1.0000	91.71
76.5	969,792		0.0000	1.0000	91.71
77.5	969,792		0.0000	1.0000	91.71
78.5	969,792		0.0000	1.0000	91.71

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 70 of 317

DUKE ENERGY PROGRESS
ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	969,792	5,407	0.0056	0.9944	91.71
80.5	964,385		0.0000	1.0000	91.20
81.5	964,385		0.0000	1.0000	91.20
82.5	964,385		0.0000	1.0000	91.20
83.5	964,385	1,114	0.0012	0.9988	91.20
84.5	963,271		0.0000	1.0000	91.09
85.5	959,030		0.0000	1.0000	91.09
86.5	855,131		0.0000	1.0000	91.09
87.5	855,131		0.0000	1.0000	91.09
88.5	507,067		0.0000	1.0000	91.09
89.5					91.09

DUKE ENERGY PROGRESS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	327,855,455		0.0000	1.0000	100.00
0.5	320,643,997		0.0000	1.0000	100.00
1.5	303,012,577	615,429	0.0020	0.9980	100.00
2.5	279,664,643	4,640	0.0000	1.0000	99.80
3.5	275,532,005	962,878	0.0035	0.9965	99.80
4.5	268,858,985	5	0.0000	1.0000	99.45
5.5	278,285,475	2,270	0.0000	1.0000	99.45
6.5	276,736,545	216,070	0.0008	0.9992	99.45
7.5	220,903,698	8,260	0.0000	1.0000	99.37
8.5	173,468,787	27,200	0.0002	0.9998	99.36
9.5	119,855,978	20,001	0.0002	0.9998	99.35
10.5	103,278,738		0.0000	1.0000	99.33
11.5	79,381,564		0.0000	1.0000	99.33
12.5	65,929,126	3,003	0.0000	1.0000	99.33
13.5	133,788,918	93,772	0.0007	0.9993	99.33
14.5	128,737,499	32,282	0.0003	0.9997	99.26
15.5	122,134,843	129,085	0.0011	0.9989	99.23
16.5	126,547,149	95,833	0.0008	0.9992	99.13
17.5	131,734,904	548	0.0000	1.0000	99.05
18.5	133,575,155	407,206	0.0030	0.9970	99.05
19.5	134,991,040	267,130	0.0020	0.9980	98.75
20.5	134,486,945	1,293,986	0.0096	0.9904	98.56
21.5	137,247,506	32,960	0.0002	0.9998	97.61
22.5	137,528,686	320,744	0.0023	0.9977	97.58
23.5	150,173,758	227,297	0.0015	0.9985	97.36
24.5	160,067,288	148,566	0.0009	0.9991	97.21
25.5	161,046,944	17,590	0.0001	0.9999	97.12
26.5	160,539,835	939,606	0.0059	0.9941	97.11
27.5	155,401,110	95,020	0.0006	0.9994	96.54
28.5	151,605,555	160,089	0.0011	0.9989	96.48
29.5	148,061,896	432,669	0.0029	0.9971	96.38
30.5	151,866,911	83,044	0.0005	0.9995	96.10
31.5	157,934,285	49,021	0.0003	0.9997	96.04
32.5	156,500,408	66,946	0.0004	0.9996	96.01
33.5	72,804,762	33,676	0.0005	0.9995	95.97
34.5	72,404,606	228,318	0.0032	0.9968	95.93
35.5	69,985,228	2,124	0.0000	1.0000	95.63
36.5	67,847,342	39,892	0.0006	0.9994	95.62
37.5	62,992,855	103,047	0.0016	0.9984	95.57
38.5	63,336,462	39,061	0.0006	0.9994	95.41

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 72 of 317

DUKE ENERGY PROGRESS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	56,861,089	80,010	0.0014	0.9986	95.35
40.5	56,607,226	468,008	0.0083	0.9917	95.22
41.5	34,953,410	233,750	0.0067	0.9933	94.43
42.5	35,469,131	18,804	0.0005	0.9995	93.80
43.5	24,533,479	46,804	0.0019	0.9981	93.75
44.5	25,613,368	33,559	0.0013	0.9987	93.57
45.5	26,942,898	104,692	0.0039	0.9961	93.45
46.5	26,879,023	74,746	0.0028	0.9972	93.09
47.5	29,853,106	86,196	0.0029	0.9971	92.83
48.5	28,953,330	108,760	0.0038	0.9962	92.56
49.5	28,699,792	12,355	0.0004	0.9996	92.21
50.5	19,809,644	8,676	0.0004	0.9996	92.17
51.5	19,775,075	44,506	0.0023	0.9977	92.13
52.5	14,016,597	17,684	0.0013	0.9987	91.92
53.5	12,264,472	21,096	0.0017	0.9983	91.81
54.5	12,142,147		0.0000	1.0000	91.65
55.5	12,141,863	581	0.0000	1.0000	91.65
56.5	10,195,228	13,232	0.0013	0.9987	91.64
57.5	10,181,616		0.0000	1.0000	91.53
58.5	9,568,728		0.0000	1.0000	91.53
59.5	7,215,940		0.0000	1.0000	91.53
60.5	7,200,215	23,840	0.0033	0.9967	91.53
61.5	3,900,087		0.0000	1.0000	91.22
62.5	905,061		0.0000	1.0000	91.22
63.5	885,587		0.0000	1.0000	91.22
64.5	885,587		0.0000	1.0000	91.22
65.5	788,208		0.0000	1.0000	91.22
66.5	787,050		0.0000	1.0000	91.22
67.5	785,792		0.0000	1.0000	91.22
68.5	784,505		0.0000	1.0000	91.22
69.5	788,652		0.0000	1.0000	91.22
70.5	109,254		0.0000	1.0000	91.22
71.5	109,254		0.0000	1.0000	91.22
72.5	457,318		0.0000	1.0000	91.22
73.5	969,792		0.0000	1.0000	91.22
74.5	969,792		0.0000	1.0000	91.22
75.5	969,792		0.0000	1.0000	91.22
76.5	969,792		0.0000	1.0000	91.22
77.5	969,792		0.0000	1.0000	91.22
78.5	969,792		0.0000	1.0000	91.22

DUKE ENERGY PROGRESS
ACCOUNT 311 STRUCTURES AND IMPROVEMENTS
ORIGINAL LIFE TABLE, CONT.

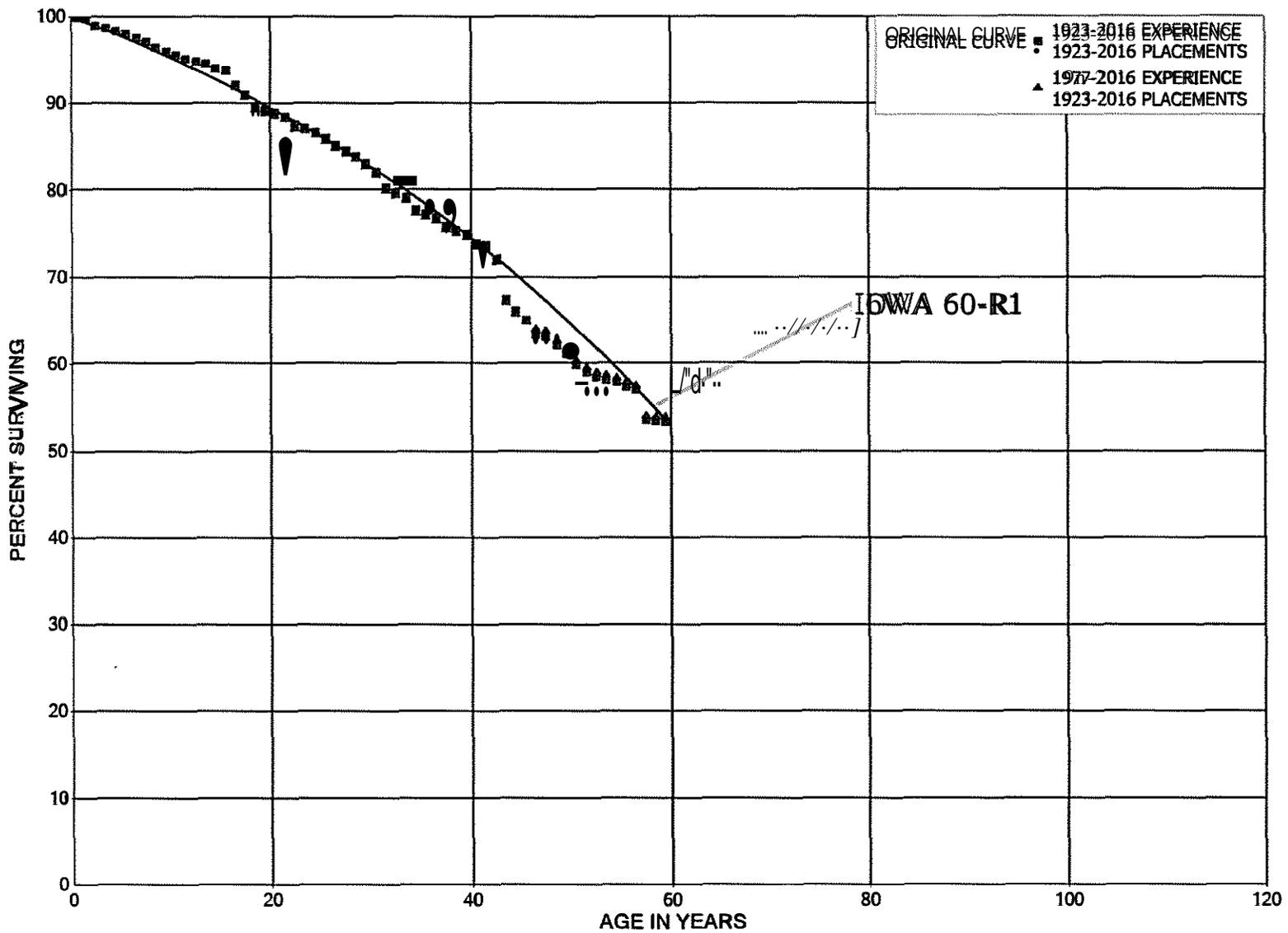
PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	969,792	5,407	0.0056	0.9944	91.22
80.5	964,385		0.0000	1.0000	90.71
81.5	964,385		0.0000	1.0000	90.71
82.5	964,385		0.0000	1.0000	90.71
83.5	964,385	1,114	0.0012	0.9988	90.71
84.5	963,271		0.0000	1.0000	90.61
85.5	959,030		0.0000	1.0000	90.61
86.5	855,131		0.0000	1.0000	90.61
87.5	855,131		0.0000	1.0000	90.61
88.5	507,067		0.0000	1.0000	90.61
89.5					90.61

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 74 of 317

DUKE ENERGY PROGRESS
ACCOUNT 312 BOILER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VII-12

Duke Energy Progress
December 31, 2010

DUKE ENERGY PROGRESS

ACCOUNT 312 BOILER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	3,065,320,870	4,236,238	0.0014	0.9986	100.00
0.5	3,040,569,936	3,220,218	0.0011	0.9989	99.86
1.5	2,930,790,208	26,051,094	0.0089	0.9911	99.76
2.5	2,672,950,700	7,019,774	0.0026	0.9974	98.87
3.5	2,541,685,430	8,411,613	0.0033	0.9967	98.61
4.5	2,496,701,572	7,213,706	0.0029	0.9971	98.28
5.5	2,406,136,441	13,443,820	0.0056	0.9944	98.00
6.5	2,341,239,650	9,723,477	0.0042	0.9958	97.45
7.5	2,108,399,720	13,683,708	0.0065	0.9935	97.05
8.5	1,908,395,876	9,993,908	0.0052	0.9948	96.42
9.5	1,551,672,517	7,211,036	0.0046	0.9954	95.91
10.5	1,448,341,476	5,317,888	0.0037	0.9963	95.47
11.5	1,270,727,619	4,968,922	0.0039	0.9961	95.12
12.5	1,220,936,088	3,345,623	0.0027	0.9973	94.74
13.5	1,120,375,880	5,904,368	0.0053	0.9947	94.48
14.5	1,076,972,525	2,439,615	0.0023	0.9977	93.99
15.5	1,001,311,643	18,175,021	0.0182	0.9818	93.77
16.5	923,676,294	10,812,836	0.0117	0.9883	92.07
17.5	886,304,860	13,495,385	0.0152	0.9848	90.99
18.5	848,106,940	4,138,087	0.0049	0.9951	89.61
19.5	802,907,569	2,970,605	0.0037	0.9963	89.17
20.5	772,622,728	3,610,496	0.0047	0.9953	88.84
21.5	750,124,589	8,539,688	0.0114	0.9886	88.43
22.5	727,767,404	2,682,599	0.0037	0.9963	87.42
23.5	712,830,631	3,540,522	0.0050	0.9950	87.10
24.5	705,195,490	5,686,737	0.0081	0.9919	86.66
25.5	691,199,663	6,458,332	0.0093	0.9907	85.97
26.5	674,275,481	4,948,969	0.0073	0.9927	85.16
27.5	633,951,292	4,976,891	0.0079	0.9921	84.54
28.5	625,473,884	5,903,824	0.0094	0.9906	83.87
29.5	617,461,656	7,912,717	0.0128	0.9872	83.08
30.5	604,748,631	12,693,934	0.0210	0.9790	82.02
31.5	629,766,737	4,893,045	0.0078	0.9922	80.30
32.5	622,028,425	4,185,851	0.0067	0.9933	79.67
33.5	374,421,447	6,768,1439	0.0181	0.9819	79.14
34.5	369,387,583	2,246,412	0.0061	0.9939	77.71
35.5	363,690,361	1,828,916	0.0050	0.9950	77.23
36.5	250,695,177	3,360,233	0.0134	0.9866	76.84
37.5	231,261,837	1,325,324	0.0057	0.9943	75.81
38.5	219,535,987	1,270,988	0.0058	0.9942	75.38

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 76 of 317

DUKE ENERGY PROGRESS

ACCOUNT 312 BOILER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	215,369,861	3,179,890	0.0148	0.9852	74.94
40.5	207,618,234	714,004	0.0034	0.9966	73.84
41.5	178,630,545	3,668,914	0.0205	0.9795	73.58
42.5	168,577,865	11,022,410	0.0654	0.9346	72.07
43.5	116,836,915	2,303,008	0.0197	0.9803	67.36
44.5	114,417,336	1,878,660	0.0164	0.9836	66.03
45.5	99,159,376	2,580,222	0.0260	0.9740	64.95
46.5	96,444,944	311,452	0.0032	0.9968	63.26
47.5	96,006,514	1,533,538	0.0160	0.9840	63.05
48.5	79,130,330	1,285,781	0.0162	0.9838	62.05
49.5	77,834,121	1,590,381	0.0204	0.9796	61.04
50.5	54,743,792	756,251	0.0138	0.9862	59.79
51.5	53,952,758	545,353	0.0101	0.9899	58.96
52.5	39,281,599	210,973	0.0054	0.9946	58.37
53.5	37,182,711	153,053	0.0041	0.9959	58.05
54.5	32,740,070	294,663	0.0090	0.9910	57.82
55.5	32,714,929	214,505	0.0066	0.9934	57.30
56.5	26,113,927	1,575,530	0.0603	0.9397	56.92
57.5	24,465,554	40,801	0.0017	0.9983	53.49
58.5	19,591,405	25,039	0.0013	0.9987	53.40
59.5	11,954,916	33,067	0.0028	0.9972	53.33
60.5	8,899,120	110,293	0.0124	0.9876	53.18
61.5	4,311,860	275,565	0.0639	0.9361	52.52
62.5	1,642,087	60,577	0.0369	0.9631	49.17
63.5	1,577,356		0.0000	1.0000	47.35
64.5	1,575,356	226	0.0001	0.9999	47.35
65.5	1,574,890		0.0000	1.0000	47.34
66.5	1,574,886		0.0000	1.0000	47.34
67.5	1,574,526		0.0000	1.0000	47.34
68.5	1,573,626		0.0000	1.0000	47.34
69.5	864,151		0.0000	1.0000	47.34
70.5	123,202		0.0000	1.0000	47.34
71.5	123,202		0.0000	1.0000	47.34
72.5	123,202		0.0000	1.0000	47.34
73.5	123,202		0.0000	1.0000	47.34
74.5	123,202		0.0000	1.0000	47.34
75.5	123,202		0.0000	1.0000	47.34
76.5	123,202		0.0000	1.0000	47.34
77.5	123,202	99	0.0008	0.9992	47.34
78.5	123,103		0.0000	1.0000	47.31

DUKE ENERGY PROGRESS
ACCOUNT 312 BOILER PLANT EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1923-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	123,103		0.0000	1.0000	47.31
80.5	123,103	66,120	0.5371	0.4629	47.31
81.5	56,983		0.0000	1.0000	21.90
82.5	56,983		0.0000	1.0000	21.90
83.5	56,983	7,742	0.1359	0.8641	21.90
84.5	49,241	1,183	0.0240	0.9760	18.92
85.5	48,058		0.0000	1.0000	18.47
86.5	48,058		0.0000	1.0000	18.47
87.5	48,058	47,658	0.9917	0.0083	18.47
88.5	306		0.0000	1.0000	0.15
89.5					0.15

DUKE ENERGY PROGRESS

ACCOUNT 312 BOILER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,768,046,553	4,235,828	0.0015	0.9985	100.00
0.5	2,744,281,941	2,318,137	0.0008	0.9992	99.85
1.5	2,653,939,953	25,570,462	0.0096	0.9904	99.76
2.5	2,412,694,870	6,945,561	0.0029	0.9971	98.80
3.5	2,352,983,209	8,353,957	0.0036	0.9964	98.52
4.5	2,341,987,502	7,199,261	0.0031	0.9969	98.17
5.5	2,270,278,367	12,083,371	0.0053	0.9947	97.87
6.5	2,207,021,219	9,444,245	0.0043	0.9957	97.34
7.5	1,974,649,103	12,856,393	0.0065	0.9935	96.93
8.5	1,807,482,249	9,935,102	0.0055	0.9945	96.30
9.5	1,451,020,986	6,858,767	0.0047	0.9953	95.77
10.5	1,365,589,349	5,215,003	0.0038	0.9962	95.31
11.5	1,188,142,904	4,913,799	0.0041	0.9959	94.95
12.5	1,149,704,471	3,329,116	0.0029	0.9971	94.56
13.5	1,049,392,211	5,826,762	0.0056	0.9944	94.28
14.5	1,018,437,752	2,207,501	0.0022	0.9978	93.76
15.5	943,068,227	18,173,255	0.0193	0.9807	93.56
16.5	876,190,938	10,616,887	0.0121	0.9879	91.75
17.5	840,513,524	13,310,157	0.0158	0.9842	90.64
18.5	807,930,028	4,038,777	0.0050	0.9950	89.21
19.5	762,842,596	2,743,461	0.0036	0.9964	88.76
20.5	740,121,409	3,433,808	0.0046	0.9954	88.44
21.5	723,305,692	8,504,826	0.0118	0.9882	88.03
22.5	706,035,840	2,502,831	0.0035	0.9965	87.00
23.5	691,447,515	3,466,818	0.0050	0.9950	86.69
24.5	690,804,996	5,660,504	0.0082	0.9918	86.25
25.5	680,574,794	6,380,627	0.0094	0.9906	85.55
26.5	665,737,470	4,918,226	0.0074	0.9926	84.75
27.5	628,500,755	4,972,625	0.0079	0.9921	84.12
28.5	620,029,613	5,903,824	0.0095	0.9905	83.45
29.5	612,017,797	7,906,009	0.0129	0.9871	82.66
30.5	599,311,710	12,693,934	0.0212	0.9788	81.59
31.5	624,330,177	4,814,563	0.0077	0.9923	79.86
32.5	616,671,247	4,162,249	0.0067	0.9933	79.25
33.5	369,923,118	6,768,439	0.0183	0.9817	78.71
34.5	365,840,161	2,246,412	0.0061	0.9939	77.27
35.5	360,142,940	1,828,916	0.0051	0.9949	76.80
36.5	247,147,756	3,360,233	0.0136	0.9864	76.41
37.5	227,714,416	1,325,324	0.0058	0.9942	75.37
38.5	215,988,566	1,270,988	0.0059	0.9941	74.93

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 79 of 317

DUKE ENERGY PROGRESS

ACCOUNT 312 BOILER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

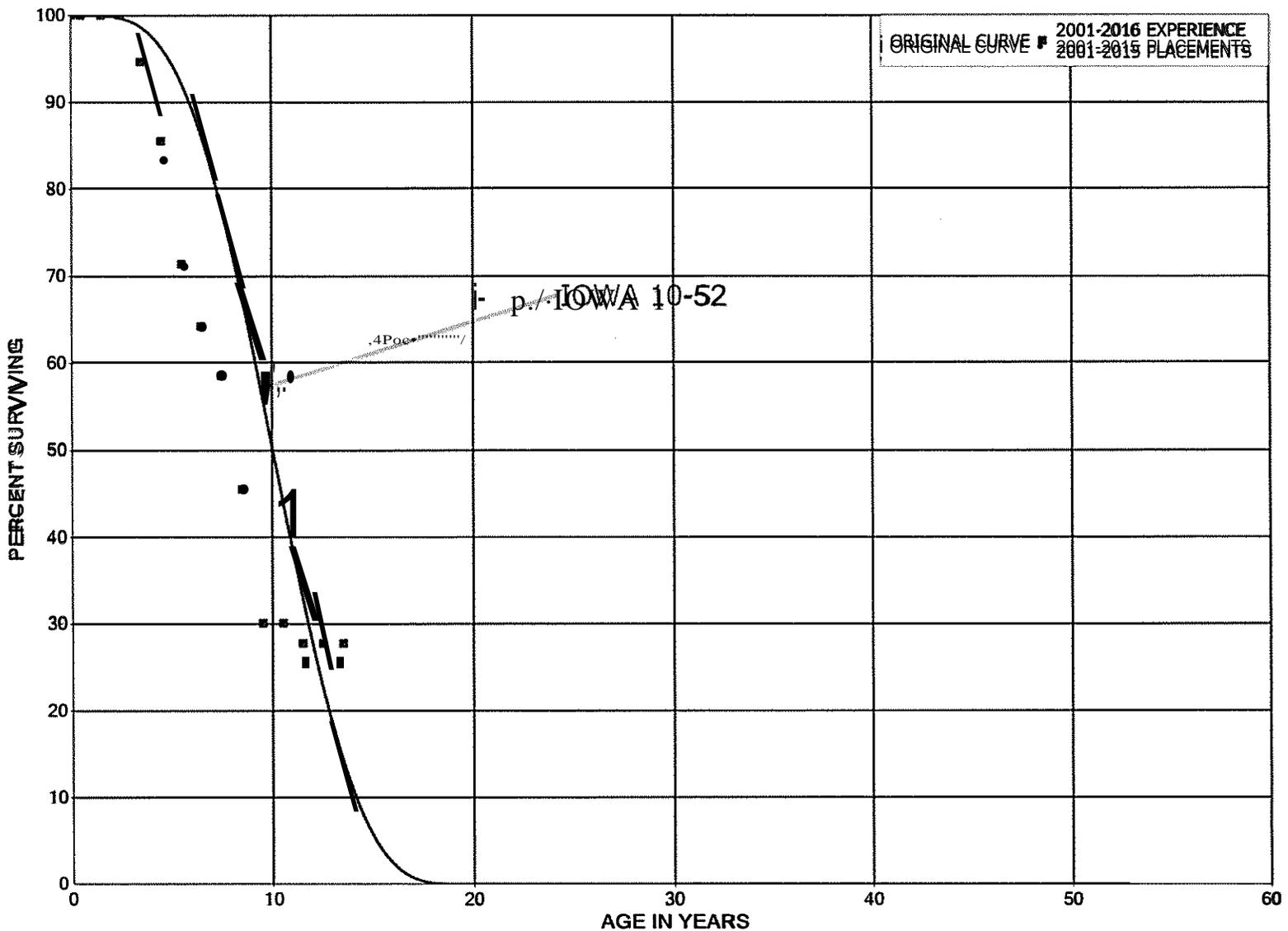
PLACEMENT BAND 1923-2016		EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	211,822,440	3,179,890	0.0150	0.9850	74.49
40.5	204,070,813	714,004	0.0035	0.9965	73.37
41.5	175,083,124	3,668,914	0.0210	0.9790	73.11
42.5	165,030,443	10,622,410	0.0644	0.9356	71.58
43.5	113,689,494	2,303,008	0.0203	0.9797	66.97
44.5	111,269,915	1,278,660	0.0115	0.9885	65.62
45.5	96,611,955	1,438,804	0.0149	0.9851	64.86
46.5	95,038,941	311,452	0.0033	0.9967	63.90
47.5	94,600,510	1,533,538	0.0162	0.9838	63.69
48.5	77,724,327	1,285,781	0.0165	0.9835	62.66
49.5	76,435,860	1,590,381	0.0208	0.9792	61.62
50.5	53,346,812	723,621	0.0136	0.9864	60.34
51.5	52,588,409	545,353	0.0104	0.9896	59.52
52.5	37,917,344	210,973	0.0056	0.9944	58.90
53.5	37,182,711	153,053	0.0041	0.9959	58.57
54.5	32,740,070	294,663	0.0090	0.9910	58.33
55.5	32,714,929	214,505	0.0066	0.9934	57.81
56.5	26,113,927	1,575,530	0.0603	0.9397	57.43
57.5	24,465,554	40,801	0.0017	0.9983	53.96
58.5	19,591,405	25,039	0.0013	0.9987	53.87
59.5	11,954,916	33,067	0.0028	0.9972	53.81
60.5	8,899,120	110,293	0.0124	0.9876	53.66
61.5	4,311,860	275,565	0.0639	0.9361	52.99
62.5	1,642,087	60,577	0.0369	0.9631	49.60
63.5	1,577,356		0.0000	1.0000	47.77
64.5	1,575,356	226	0.0001	0.9999	47.77
65.5	1,574,890		0.0000	1.0000	47.77
66.5	1,574,886		0.0000	1.0000	47.77
67.5	1,574,526		0.0000	1.0000	47.77
68.5	1,573,626		0.0000	1.0000	47.77
69.5	864,151		0.0000	1.0000	47.77
70.5	123,202		0.0000	1.0000	47.77
71.5	123,202		0.0000	1.0000	47.77
72.5	123,202		0.0000	1.0000	47.77
73.5	123,202		0.0000	1.0000	47.77
74.5	123,202		0.0000	1.0000	47.77
75.5	123,202		0.0000	1.0000	47.77
76.5	123,202		0.0000	1.0000	47.77
77.5	123,202	99	0.0008	0.9992	47.77
78.5	123,103		0.0000	1.0000	47.73

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 80 of 317

DUKE ENERGY PROGRESS
ACCOUNT 312 BOILER PLANT EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	123,103		0.0000	1.0000	47.73
80.5	123,103	66,120	0.5371	0.4629	47.73
81.5	56,983		0.0000	1.0000	22.09
82.5	56,983		0.0000	1.0000	22.09
83.5	56,983	7,742	0.1359	0.8641	22.09
84.5	49,241	1,183	0.0240	0.9760	19.09
85.5	48,058		0.0000	1.0000	18.63
86.5	48,058		0.0000	1.0000	18.63
87.5	48,058	47,658	0.9917	0.0083	18.63
88.5	306		0.0000	1.0000	0.15
89.5					0.15

DUKE ENERGY PROGRESS
ACCOUNT 312.1 BOILER PLANT EQUIPMENT - SCR CATALYST
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 312.1 BOILER PLANT EQUIPMENT - SCR CATALYST

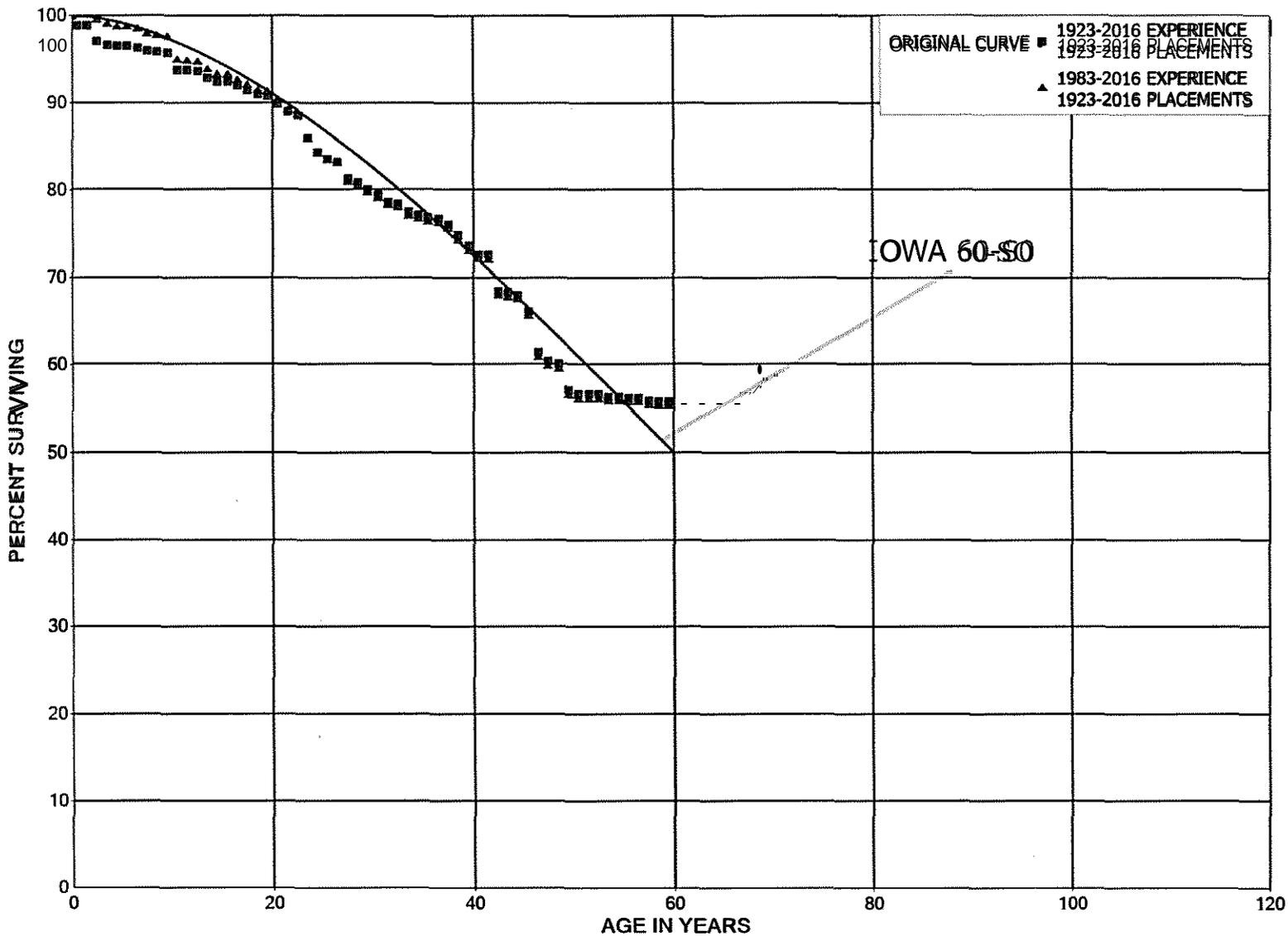
ORIGINAL LIFE TABLE

PLACEMENT BAND 2001-2015

EXPERIENCE BAND 2001-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	62,559,204		0.0000	1.0000	100.00
0.5	62,559,204		0.0000	1.0000	100.00
1.5	64,495,088		0.0000	1.0000	100.00
2.5	65,310,320	3,537,685	0.0542	0.9458	100.00
3.5	63,984,181	6,128,287	0.0958	0.9042	94.58
4.5	60,147,639	9,931,979	0.1651	0.8349	85.52
5.5	46,288,144	4,685,454	0.1012	0.8988	71.40
6.5	35,068,546	3,088,826	0.0881	0.9119	64.17
7.5	24,938,871	5,526,104	0.2216	0.7784	58.52
8.5	16,209,007	5,502,386	0.3395	0.6605	45.55
9.5	5,502,386		0.0000	1.0000	30.09
10.5	5,502,386	436,848	0.0794	0.9206	30.09
11.5	5,065,538		0.0000	1.0000	27.70
12.5	5,065,538		0.0000	1.0000	27.70
13.5					27.70

DUKE ENERGY PROGRESS
ACCOUNT 314 TURBOGENERATOR EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VII-21

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 314 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	556,855,872	6,357,231	0.0114	0.9886	100.00
0.5	549,688,056	63,284	0.0001	0.9999	98.86
1.5	508,085,482	9,340,642	0.0184	0.9816	98.85
2.5	472,909,297	1,757,429	0.0037	0.9963	97.03
3.5	430,117,027	759,124	0.0018	0.9982	96.67
4.5	414,992,561	5,548	0.0000	1.0000	96.50
5.5	401,151,352	664,363	0.0017	0.9983	96.50
6.5	394,166,829	1,577,752	0.0040	0.9960	96.34
7.5	390,824,249	503,138	0.0013	0.9987	95.95
8.5	378,804,953	392,996	0.0010	0.9990	95.83
9.5	371,713,070	7,723,516	0.0208	0.9792	95.73
10.5	361,862,489	184,485	0.0005	0.9995	93.74
11.5	360,901,132	414,968	0.0011	0.9989	93.69
12.5	359,171,915	2,705,287	0.0075	0.9925	93.58
13.5	350,644,689	1,722,892	0.0049	0.9951	92.88
14.5	348,337,811	10,477	0.0000	1.0000	92.42
15.5	345,939,364	1,873,868	0.0054	0.9946	92.42
16.5	337,528,617	1,753,652	0.0052	0.9948	91.92
17.5	334,268,267	1,876,077	0.0056	0.9944	91.44
18.5	324,287,089	537,274	0.0017	0.9983	90.93
19.5	321,097,749	3,244,941	0.0101	0.9899	90.78
20.5	304,666,963	3,256,220	0.0107	0.9893	89.86
21.5	294,909,429	1,489,048	0.0050	0.9950	88.90
22.5	288,559,852	8,140,343	0.0282	0.9718	88.45
23.5	278,110,056	5,570,839	0.0200	0.9800	85.96
24.5	260,541,644	2,201,588	0.0085	0.9915	84.23
25.5	247,867,106	875,801	0.0035	0.9965	83.52
26.5	239,233,041	5,544,333	0.0232	0.9768	83.23
27.5	229,620,434	1,323,399	0.0058	0.9942	81.30
28.5	225,159,338	2,141,400	0.0095	0.9905	80.83
29.5	222,635,233	1,872,231	0.0084	0.9916	80.06
30.5	215,286,512	1,990,173	0.0092	0.9908	79.39
31.5	221,824,303	590,674	0.0027	0.9973	78.65
32.5	219,937,910	2,591,604	0.0118	0.9882	78.44
33.5	144,434,648	598,082	0.0041	0.9959	77.52
34.5	144,961,750	695,354	0.0048	0.9952	77.20
35.5	143,809,691	287,024	0.0020	0.9980	76.83
36.5	109,776,146	911,488	0.0083	0.9917	76.68
37.5	105,910,371	1,732,937	0.0164	0.9836	76.04
38.5	104,162,958	1,691,143	0.0162	0.9838	74.80

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 85 of 317

DUKE ENERGY PROGRESS

ACCOUNT 314 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1923-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	102,172,153	1,287,812	0.0126	0.9874	73.58
40.5	97,152,566	108,618	0.0011	0.9989	72.65
41.5	86,255,429	4,929,334	0.0571	0.9429	72.57
42.5	81,323,709	214,740	0.0026	0.9974	68.42
43.5	65,617,584	250,425	0.0038	0.9962	68.24
44.5	65,363,516	1,833,842	0.0281	0.9719	67.98
45.5	58,223,715	4,093,918	0.0703	0.9297	66.08
46.5	54,123,597	927,102	0.0171	0.9829	61.43
47.5	53,189,297	302,202	0.0057	0.9943	60.38
48.5	49,363,562	2,434,908	0.0493	0.9507	60.03
49.5	46,927,702	369,301	0.0079	0.9921	57.07
50.5	34,832,693	19,133	0.0005	0.9995	56.62
51.5	34,813,308		0.0000	1.0000	56.59
52.5	27,232,899	128,357	0.0047	0.9953	56.59
53.5	24,850,213	37,030	0.0015	0.9985	56.33
54.5	20,407,487	34,503	0.0017	0.9983	56.24
55.5	20,372,108	1,032	0.0001	0.9999	56.15
56.5	16,656,591	90,486	0.0054	0.9946	56.14
57.5	16,532,214	39,704	0.0024	0.9976	55.84
58.5	13,821,416		0.0000	1.0000	55.71
59.5	8,871,634		0.0000	1.0000	55.71
60.5	6,516,720		0.0000	1.0000	55.71
61.5	3,732,951		0.0000	1.0000	55.71
62.5	2,275,313	1,795	0.0008	0.9992	55.71
63.5	2,273,518		0.0000	1.0000	55.66
64.5	2,273,518	932	0.0004	0.9996	55.66
65.5	2,272,586		0.0000	1.0000	55.64
66.5	2,272,586		0.0000	1.0000	55.64
67.5	2,272,586		0.0000	1.0000	55.64
68.5	2,272,586	811	0.0004	0.9996	55.64
69.5	1,596,222		0.0000	1.0000	55.62
70.5	926,493		0.0000	1.0000	55.62
71.5	926,493		0.0000	1.0000	55.62
72.5	926,493		0.0000	1.0000	55.62
73.5	926,493		0.0000	1.0000	55.62
74.5	926,493		0.0000	1.0000	55.62
75.5	926,493		0.0000	1.0000	55.62
76.5	926,493		0.0000	1.0000	55.62
77.5	926,493	9,328	0.0101	0.9899	55.62
78.5	917,165		0.0000	1.0000	55.06

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 86 of 317

DUKE ENERGY PROGRESS

ACCOUNT 314 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016		EXPERIENCE BAND 1923-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	917,165		0.0000	1.0000	55.06
80.5	917,165		0.0000	1.0000	55.06
81.5	917,165		0.0000	1.0000	55.06
82.5	917,165		0.0000	1.0000	55.06
83.5	917,165	1,232	0.0013	0.9987	55.06
84.5	915,933		0.0000	1.0000	54.99
85.5	915,933		0.0000	1.0000	54.99
86.5	914,549	401,068	0.4385	0.5615	54.99
87.5	513,481	512,134	0.9974	0.0026	30.87
88.5	1,347		0.0000	1.0000	0.08
89.5					0.08

DUKE ENERGY PROGRESS

ACCOUNT 314 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1983-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	366,132,899	14,607	0.0000	1.0000	100.00
0.5	368,264,428	32,709	0.0001	0.9999	100.00
1.5	327,088,227	1,914,232	0.0059	0.9941	99.99
2.5	343,745,465	1,757,429	0.0051	0.9949	99.40
3.5	304,424,317	759,105	0.0025	0.9975	98.89
4.5	289,369,697	5,548	0.0000	1.0000	98.65
5.5	276,103,016	664,363	0.0024	0.9976	98.65
6.5	274,794,185	1,577,752	0.0057	0.9943	98.41
7.5	274,526,205	503,138	0.0018	0.9982	97.84
8.5	262,515,551	392,996	0.0015	0.9985	97.66
9.5	278,400,869	7,723,516	0.0277	0.9723	97.52
10.5	282,809,173	184,485	0.0007	0.9993	94.81
11.5	289,838,288	414,968	0.0014	0.9986	94.75
12.5	288,178,657	2,702,287	0.0094	0.9906	94.61
13.5	279,655,151	1,717,025	0.0061	0.9939	93.73
14.5	284,915,892	6,477	0.0000	1.0000	93.15
15.5	282,574,309	1,872,668	0.0066	0.9934	93.15
16.5	282,062,678	1,750,302	0.0062	0.9938	92.53
17.5	278,814,234	1,876,077	0.0067	0.9933	91.96
18.5	274,836,459	526,756	0.0019	0.9981	91.34
19.5	271,670,974	3,103,141	0.0114	0.9886	91.16
20.5	264,887,708	3,235,158	0.0122	0.9878	90.12
21.5	255,153,486	1,489,048	0.0058	0.9942	89.02
22.5	255,997,736	8,138,487	0.0318	0.9682	88.50
23.5	250,869,985	4,869,540	0.0194	0.9806	85.69
24.5	238,564,496	2,201,588	0.0092	0.9908	84.03
25.5	225,893,115	875,801	0.0039	0.9961	83.25
26.5	221,291,391	5,544,333	0.0251	0.9749	82.93
27.5	214,967,209	1,272,399	0.0059	0.9941	80.85
28.5	213,686,716	2,061,400	0.0096	0.9904	80.37
29.5	211,242,610	1,872,231	0.0089	0.9911	79.60
30.5	208,541,292	1,990,173	0.0095	0.9905	78.89
31.5	216,946,208	590,674	0.0027	0.9973	78.14
32.5	216,106,533	2,591,604	0.0120	0.9880	77.93
33.5	142,088,553	598,082	0.0042	0.9958	76.99
34.5	142,615,654	695,354	0.0049	0.9951	76.67
35.5	141,463,596	287,024	0.0020	0.9980	76.29
36.5	107,430,983	911,488	0.0085	0.9915	76.14
37.5	103,565,208	1,732,937	0.0167	0.9833	75.49
38.5	101,817,795	1,691,143	0.0166	0.9834	74.23

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 88 of 317

DUKE ENERGY PROGRESS

ACCOUNT 314 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1983-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	100,502,543	1,287,812	0.0128	0.9872	73.00
40.5	96,154,480	108,618	0.0011	0.9989	72.06
41.5	85,257,343	4,929,334	0.0578	0.9422	71.98
42.5	80,325,623	214,740	0.0027	0.9973	67.82
43.5	64,619,497	250,425	0.0039	0.9961	67.64
44.5	64,365,430	1,833,842	0.0285	0.9715	67.37
45.5	57,225,629	4,093,918	0.0715	0.9285	65.45
46.5	53,125,511	927,102	0.0175	0.9825	60.77
47.5	52,191,211	302,202	0.0058	0.9942	59.71
48.5	48,365,476	2,434,908	0.0503	0.9497	59.37
49.5	45,929,616	369,301	0.0080	0.9920	56.38
50.5	33,834,607	19,133	0.0006	0.9994	55.92
51.5	33,815,222		0.0000	1.0000	55.89
52.5	26,234,813	57,575	0.0022	0.9978	55.89
53.5	23,922,909	37,030	0.0015	0.9985	55.77
54.5	19,480,183	34,503	0.0018	0.9982	55.68
55.5	19,446,036	1,032	0.0001	0.9999	55.58
56.5	15,731,903	90,486	0.0058	0.9942	55.58
57.5	15,607,526	39,704	0.0025	0.9975	55.26
58.5	13,307,935		0.0000	1.0000	55.12
59.5	8,871,634		0.0000	1.0000	55.12
60.5	6,516,720		0.0000	1.0000	55.12
61.5	3,732,951		0.0000	1.0000	55.12
62.5	2,275,313	1,795	0.0008	0.9992	55.12
63.5	2,273,518		0.0000	1.0000	55.08
64.5	2,273,518	932	0.0004	0.9996	55.08
65.5	2,272,586		0.0000	1.0000	55.06
66.5	2,272,586		0.0000	1.0000	55.06
67.5	2,272,586		0.0000	1.0000	55.06
68.5	2,272,586	811	0.0004	0.9996	55.06
69.5	1,596,222		0.0000	1.0000	55.04
70.5	926,493		0.0000	1.0000	55.04
71.5	926,493		0.0000	1.0000	55.04
72.5	926,493		0.0000	1.0000	55.04
73.5	926,493		0.0000	1.0000	55.04
74.5	926,493		0.0000	1.0000	55.04
75.5	926,493		0.0000	1.0000	55.04
76.5	926,493		0.0000	1.0000	55.04
77.5	926,493	9,328	0.0101	0.9899	55.04
78.5	917,165		0.0000	1.0000	54.48

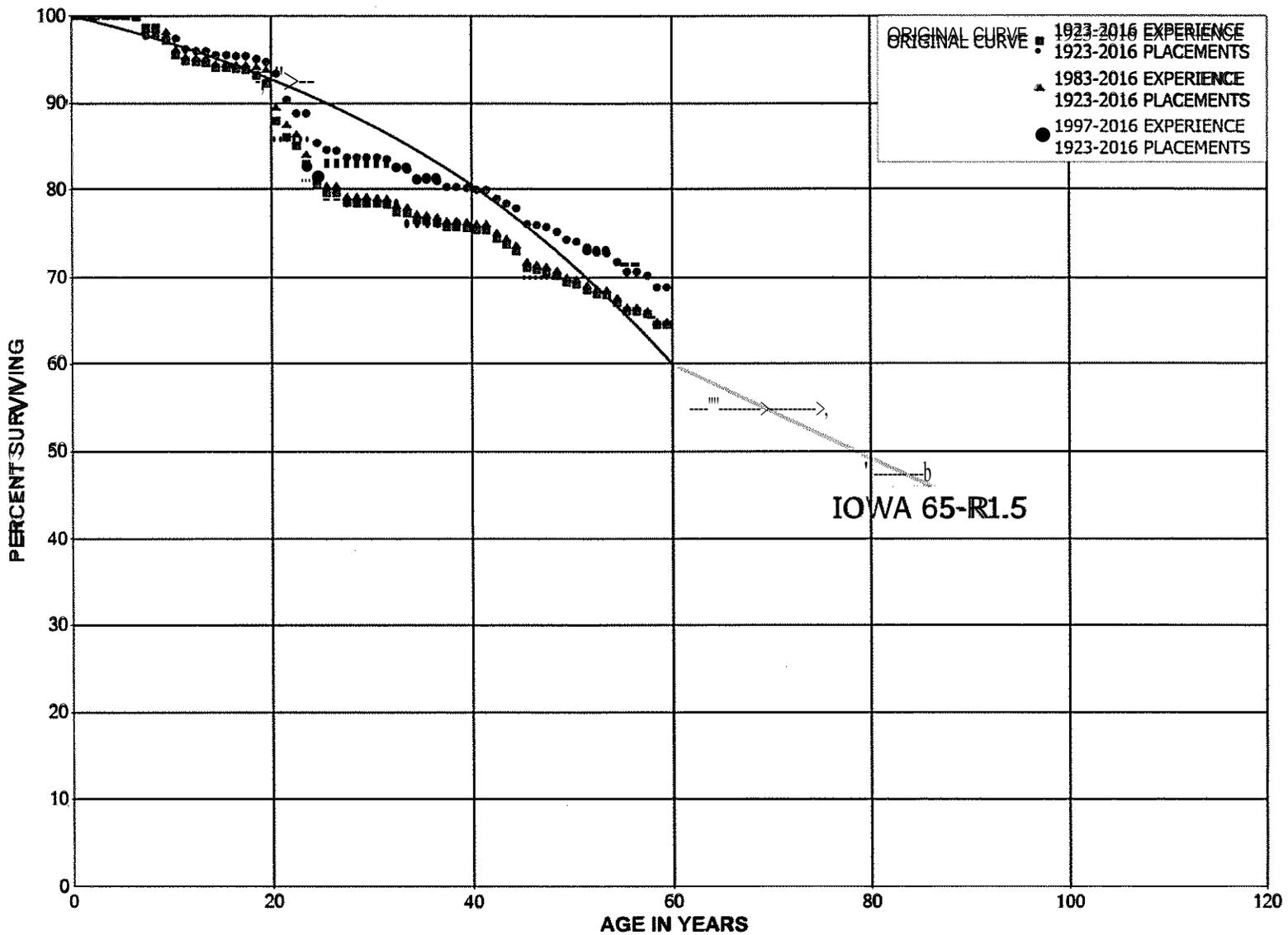
DUKE ENERGY PROGRESS

ACCOUNT 314 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1983-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	917,165		0.0000	1.0000	54.48
80.5	917,165		0.0000	1.0000	54.48
81.5	917,165		0.0000	1.0000	54.48
82.5	917,165		0.0000	1.0000	54.48
83.5	917,165	1,232	0.0013	0.9987	54.48
84.5	915,933		0.0000	1.0000	54.41
85.5	915,933		0.0000	1.0000	54.41
86.5	914,549	401,068	0.4385	0.5615	54.41
87.5	513,481	512,134	0.9974	0.0026	30.55
88.5	1,347		0.0000	1.0000	0.08
89.5					0.08

DUKE ENERGY PROGRESS
ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VII:28

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	307,867,140	3,915	0.0000	1.0000	100.00
0.5	301,567,594	25,665	0.0001	0.9999	100.00
1.5	284,208,511	5,960	0.0000	1.0000	99.99
2.5	279,107,018	76,726	0.0003	0.9997	99.99
3.5	276,244,174	75,268	0.0003	0.9997	99.96
4.5	272,544,151	5,410	0.0000	1.0000	99.93
5.5	262,889,140	227,411	0.0009	0.9991	99.93
6.5	260,300,758	3,343,809	0.0128	0.9872	99.84
7.5	226,053,166	4,205	0.0000	1.0000	98.56
8.5	199,970,375	2,792,400	0.0140	0.9860	98.56
9.5	151,990,430	2,599,834	0.0171	0.9829	97.18
10.5	141,384,198	1,068,247	0.0076	0.9924	95.52
11.5	125,156,880	142,134	0.0011	0.9989	94.80
12.5	122,542,548	98,223	0.0008	0.9992	94.69
13.5	118,389,675	632,018	0.0053	0.9947	94.62
14.5	117,209,526	102,403	0.0009	0.9991	94.11
15.5	113,319,977	160,152	0.0014	0.9986	94.03
16.5	112,230,863	32,847	0.0003	0.9997	93.90
17.5	109,703,084	862,836	0.0079	0.9921	93.87
18.5	107,835,007	927,199	0.0086	0.9914	93.13
19.5	106,494,562	5,074,926	0.0477	0.9523	92.33
20.5	99,986,583	2,126,568	0.0213	0.9787	87.93
21.5	94,429,949	1,069,667	0.0113	0.9887	86.06
22.5	93,222,056	2,318,367	0.0249	0.9751	85.08
23.5	90,988,033	2,601,508	0.0286	0.9714	82.97
24.5	87,064,000	1,049,579	0.0121	0.9879	80.60
25.5	81,894,041	38,542	0.0005	0.9995	79.63
26.5	80,658,468	1,136,763	0.0141	0.9859	79.59
27.5	75,795,118	17,090	0.0002	0.9998	78.47
28.5	74,382,870	6,601	0.0001	0.9999	78.45
29.5	71,865,211	50,461	0.0007	0.9993	78.44
30.5	71,616,023	140,586	0.0020	0.9980	78.39
31.5	75,250,514	760,448	0.0101	0.9899	78.23
32.5	72,127,505	152,839	0.0021	0.9979	77.44
33.5	47,259,438	398,829	0.0084	0.9916	77.28
34.5	46,956,878	78,447	0.0017	0.9983	76.63
35.5	46,113,201	184,238	0.0040	0.9960	76.50
36.5	33,065,498	202,951	0.0061	0.9939	76.19
37.5	31,346,999	9,349	0.0003	0.9997	75.72
38.5	30,869,453	34,037	0.0011	0.9989	75.70

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 92 of 317

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1923-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	29,157,330	84,096	0.0029	0.9971	75.62
40.5	27,900,407	20,866	0.0007	0.9993	75.40
41.5	23,982,019	296,199	0.0124	0.9876	75.34
42.5	23,663,780	221,096	0.0093	0.9907	74.41
43.5	17,519,147	175,717	0.0100	0.9900	73.72
44.5	17,269,906	445,890	0.0258	0.9742	72.98
45.5	14,349,689	62,590	0.0044	0.9956	71.09
46.5	14,287,050	30,244	0.0021	0.9979	70.78
47.5	14,255,593	100,805	0.0071	0.9929	70.63
48.5	12,095,981	132,823	0.0110	0.9890	70.13
49.5	11,962,186	41,776	0.0035	0.9965	69.36
50.5	8,904,142	74,481	0.0084	0.9916	69.12
51.5	8,824,734	63,409	0.0072	0.9928	68.54
52.5	7,765,809	6,283	0.0008	0.9992	68.05
53.5	6,580,070	89,658	0.0136	0.9864	68.00
54.5	4,263,981	63,207	0.0148	0.9852	67.07
55.5	4,199,412		0.0000	1.0000	66.08
56.5	3,496,396	20,035	0.0057	0.9943	66.08
57.5	3,473,558	61,792	0.0178	0.9822	65.70
58.5	2,830,818	655	0.0002	0.9998	64.53
59.5	1,803,848		0.0000	1.0000	64.51
60.5	1,580,892		0.0000	1.0000	64.51
61.5	835,430	50,253	0.0602	0.9398	64.51
62.5	483,392	42,225	0.0874	0.9126	60.63
63.5	441,167		0.0000	1.0000	55.34
64.5	441,167		0.0000	1.0000	55.34
65.5	441,167		0.0000	1.0000	55.34
66.5	441,167		0.0000	1.0000	55.34
67.5	441,167		0.0000	1.0000	55.34
68.5	441,167	35,068	0.0795	0.9205	55.34
69.5	286,630	13,675	0.0477	0.9523	50.94
70.5	152,583		0.0000	1.0000	48.51
71.5	152,583		0.0000	1.0000	48.51
72.5	152,583		0.0000	1.0000	48.51
73.5	152,583		0.0000	1.0000	48.51
74.5	151,629		0.0000	1.0000	48.51
75.5	151,629		0.0000	1.0000	48.51
76.5	151,629		0.0000	1.0000	48.51
77.5	151,629		0.0000	1.0000	48.51
78.5	151,629	33	0.0002	0.9998	48.51

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 93 of 317

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	151,597	1,374	0.0091	0.9909	48.50
80.5	150,223		0.0000	1.0000	48.06
81.5	150,223		0.0000	1.0000	48.06
82.5	150,223		0.0000	1.0000	48.06
83.5	148,676	8,291	0.0558	0.9442	48.06
84.5	140,385	3,307	0.0236	0.9764	45.38
85.5	137,078		0.0000	1.0000	44.31
86.5	137,078	44,391	0.3238	0.6762	44.31
87.5	92,687	63,917	0.6896	0.3104	29.96
88.5	16,640		0.0000	1.0000	9.30
89.5					9.30

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1983-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	246,218,538		0.0000	1.0000	100.00
0.5	241,649,414	1,085	0.0000	1.0000	100.00
1.5	224,668,140	2	0.0000	1.0000	100.00
2.5	232,019,932	75,071	0.0003	0.9997	100.00
3.5	230,349,773	8,682	0.0000	1.0000	99.97
4.5	226,979,982	5,410	0.0000	1.0000	99.96
5.5	220,418,793	227,411	0.0010	0.9990	99.96
6.5	218,875,069	3,343,359	0.0153	0.9847	99.86
7.5	185,113,486	4,205	0.0000	1.0000	98.33
8.5	159,779,564	511,785	0.0032	0.9968	98.33
9.5	127,240,616	2,599,784	0.0204	0.9796	98.02
10.5	120,900,896	1,067,388	0.0088	0.9912	96.01
11.5	106,088,643	135,308	0.0013	0.9987	95.17
12.5	103,491,657	31,117	0.0003	0.9997	95.04
13.5	99,406,022	623,319	0.0063	0.9937	95.02
14.5	100,449,039	25,377	0.0003	0.9997	94.42
15.5	97,061,219	134,205	0.0014	0.9986	94.40
16.5	98,119,540	7,909	0.0001	0.9999	94.26
17.5	95,617,098	214,987	0.0022	0.9978	94.26
18.5	96,012,411	272,723	0.0028	0.9972	94.05
19.5	95,326,442	4,415,144	0.0463	0.9537	93.78
20.5	90,938,687	2,106,369	0.0232	0.9768	89.43
21.5	85,420,852	1,069,667	0.0125	0.9875	87.36
22.5	85,982,865	2,314,772	0.0269	0.9731	86.27
23.5	83,882,536	2,601,508	0.0310	0.9690	83.95
24.5	82,255,093	1,048,654	0.0127	0.9873	81.34
25.5	77,092,886	38,542	0.0005	0.9995	80.31
26.5	76,705,813	1,136,763	0.0148	0.9852	80.27
27.5	72,423,838	17,090	0.0002	0.9998	79.08
28.5	71,848,782	4,445	0.0001	0.9999	79.06
29.5	69,333,279	48,686	0.0007	0.9993	79.05
30.5	69,697,085	140,586	0.0020	0.9980	79.00
31.5	74,001,959	760,448	0.0103	0.9897	78.84
32.5	71,119,121	151,949	0.0021	0.9979	78.03
33.5	46,715,161	390,875	0.0084	0.9916	77.86
34.5	46,420,555	78,447	0.0017	0.9983	77.21
35.5	45,576,878	184,238	0.0040	0.9960	77.08
36.5	32,529,830	202,951	0.0062	0.9938	76.77
37.5	30,811,331	9,349	0.0003	0.9997	76.29
38.5	30,333,785	34,037	0.0011	0.9989	76.27

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 95 of 317

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1983-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	28,791,384	84,096	0.0029	0.9971	76.18
40.5	27,697,058	20,866	0.0008	0.9992	75.96
41.5	23,778,670	296,199	0.0125	0.9875	75.90
42.5	23,460,430	221,096	0.0094	0.9906	74.95
43.5	17,315,797	175,717	0.0101	0.9899	74.25
44.5	17,067,511	445,890	0.0261	0.9739	73.50
45.5	14,147,293	62,590	0.0044	0.9956	71.58
46.5	14,084,655	30,244	0.0021	0.9979	71.26
47.5	14,053,198	100,805	0.0072	0.9928	71.11
48.5	11,893,585	132,823	0.0112	0.9888	70.60
49.5	11,759,790	39,753	0.0034	0.9966	69.81
50.5	8,703,770	74,481	0.0086	0.9914	69.57
51.5	8,624,362	63,409	0.0074	0.9926	68.98
52.5	7,565,437	6,283	0.0008	0.9992	68.47
53.5	6,381,245	89,658	0.0141	0.9859	68.41
54.5	4,065,156	63,207	0.0155	0.9845	67.45
55.5	4,008,877		0.0000	1.0000	66.40
56.5	3,309,169	20,035	0.0061	0.9939	66.40
57.5	3,286,331	61,792	0.0188	0.9812	66.00
58.5	2,735,212	655	0.0002	0.9998	64.76
59.5	1,803,848		0.0000	1.0000	64.74
60.5	1,580,892		0.0000	1.0000	64.74
61.5	835,430	50,253	0.0602	0.9398	64.74
62.5	483,392	42,225	0.0874	0.9126	60.85
63.5	441,167		0.0000	1.0000	55.53
64.5	441,167		0.0000	1.0000	55.53
65.5	441,167		0.0000	1.0000	55.53
66.5	441,167		0.0000	1.0000	55.53
67.5	441,167		0.0000	1.0000	55.53
68.5	441,167	35,068	0.0795	0.9205	55.53
69.5	286,630	13,675	0.0477	0.9523	51.12
70.5	152,583		0.0000	1.0000	48.68
71.5	152,583		0.0000	1.0000	48.68
72.5	152,583		0.0000	1.0000	48.68
73.5	152,583		0.0000	1.0000	48.68
74.5	151,629		0.0000	1.0000	48.68
75.5	151,629		0.0000	1.0000	48.68
76.5	151,629		0.0000	1.0000	48.68
77.5	151,629		0.0000	1.0000	48.68
78.5	151,629	33	0.0002	0.9998	48.68

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1983-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	151,597	1,374	0.0091	0.9909	48.67
80.5	150,223		0.0000	1.0000	48.23
81.5	150,223		0.0000	1.0000	48.23
82.5	150,223		0.0000	1.0000	48.23
83.5	148,676	8,291	0.0558	0.9442	48.23
84.5	140,385	3,307	0.0236	0.9764	45.54
85.5	137,078		0.0000	1.0000	44.47
86.5	137,078	44,391	0.3238	0.6762	44.47
87.5	92,687	63,917	0.6896	0.3104	30.07
88.5	16,640		0.0000	1.0000	9.33
89.5					9.33

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 97 of 317

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	191,545,145		0.0000	1.0000	100.00
0.5	187,766,153		0.0000	1.0000	100.00
1.5	172,686,951		0.0000	1.0000	100.00
2.5	167,785,264	74,637	0.0004	0.9996	100.00
3.5	167,461,123	6,145	0.0000	1.0000	99.96
4.5	166,264,148		0.0000	1.0000	99.95
5.5	162,730,144	226,571	0.0014	0.9986	99.95
6.5	161,662,504	3,308,711	0.0205	0.9795	99.81
7.5	131,984,196		0.0000	1.0000	97.77
8.5	106,809,339	399,294	0.0037	0.9963	97.77
9.5	61,993,137	18,105	0.0003	0.9997	97.40
10.5	54,889,768	675,292	0.0123	0.9877	97.38
11.5	39,931,175	87,461	0.0022	0.9978	96.18
12.5	40,895,997	30,137	0.0007	0.9993	95.97
13.5	59,562,400	209,254	0.0035	0.9965	95.90
14.5	60,439,959	4,728	0.0001	0.9999	95.56
15.5	56,998,184	107,677	0.0019	0.9981	95.55
16.5	67,505,593	7,909	0.0001	0.9999	95.37
17.5	66,596,036	168,647	0.0025	0.9975	95.36
18.5	65,662,683	272,705	0.0042	0.9958	95.12
19.5	67,123,074	955,307	0.0142	0.9858	94.72
20.5	65,775,463	2,092,173	0.0318	0.9682	93.38
21.5	61,539,259	1,036,400	0.0168	0.9832	90.41
22.5	59,953,633	39,007	0.0007	0.9993	88.88
23.5	67,120,676	2,601,508	0.0388	0.9612	88.83
24.5	68,126,541	629,263	0.0092	0.9908	85.38
25.5	65,878,865	38,542	0.0006	0.9994	84.59
26.5	64,647,561	587,508	0.0091	0.9909	84.54
27.5	60,333,908	7,912	0.0001	0.9999	83.78
28.5	60,927,167	4,445	0.0001	0.9999	83.77
29.5	58,427,564	48,686	0.0008	0.9992	83.76
30.5	59,780,150	140,586	0.0024	0.9976	83.69
31.5	63,415,022	760,448	0.0120	0.9880	83.49
32.5	61,574,831	145,952	0.0024	0.9976	82.49
33.5	36,723,449	378,779	0.0103	0.9897	82.30
34.5	38,307,072	59,909	0.0016	0.9984	81.45
35.5	37,482,004	184,238	0.0049	0.9951	81.32
36.5	25,867,869	185,011	0.0072	0.9928	80.92
37.5	24,282,464	9,349	0.0004	0.9996	80.34
38.5	26,101,508	34,037	0.0013	0.9987	80.31

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 98 of 317

DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	24,395,908	69,402	0.0028	0.9972	80.21
40.5	23,993,313	3,230	0.0001	0.9999	79.98
41.5	20,673,937	248,797	0.0120	0.9880	79.97
42.5	21,240,291	148,834	0.0070	0.9930	79.00
43.5	15,167,920	116,394	0.0077	0.9923	78.45
44.5	15,491,700	352,858	0.0228	0.9772	77.85
45.5	13,278,983	27,439	0.0021	0.9979	76.08
46.5	13,392,637	30,244	0.0023	0.9977	75.92
47.5	13,719,270	100,805	0.0073	0.9927	75.75
48.5	11,559,658	132,823	0.0115	0.9885	75.19
49.5	11,425,863	39,753	0.0035	0.9965	74.33
50.5	8,370,497	74,481	0.0089	0.9911	74.07
51.5	8,291,089	63,409	0.0076	0.9924	73.41
52.5	7,232,164	6,283	0.0009	0.9991	72.85
53.5	6,216,147	89,658	0.0144	0.9856	72.78
54.5	4,062,655	63,207	0.0156	0.9844	71.73
55.5	3,998,085		0.0000	1.0000	70.62
56.5	3,295,070	20,035	0.0061	0.9939	70.62
57.5	3,272,232	61,792	0.0189	0.9811	70.19
58.5	2,630,445	655	0.0002	0.9998	68.86
59.5	1,603,476		0.0000	1.0000	68.85
60.5	1,380,520		0.0000	1.0000	68.85
61.5	635,058	50,253	0.0791	0.9209	68.85
62.5	283,020	42,225	0.1492	0.8508	63.40
63.5	240,795		0.0000	1.0000	53.94
64.5	240,795		0.0000	1.0000	53.94
65.5	240,795		0.0000	1.0000	53.94
66.5	240,795		0.0000	1.0000	53.94
67.5	242,342		0.0000	1.0000	53.94
68.5	242,342		0.0000	1.0000	53.94
69.5	131,164		0.0000	1.0000	53.94
70.5	14,099		0.0000	1.0000	53.94
71.5	14,099		0.0000	1.0000	53.94
72.5	70,652		0.0000	1.0000	53.94
73.5	152,583		0.0000	1.0000	53.94
74.5	151,629		0.0000	1.0000	53.94
75.5	151,629		0.0000	1.0000	53.94
76.5	151,629		0.0000	1.0000	53.94
77.5	151,629		0.0000	1.0000	53.94
78.5	151,629	33	0.0002	0.9998	53.94

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 99 of 317

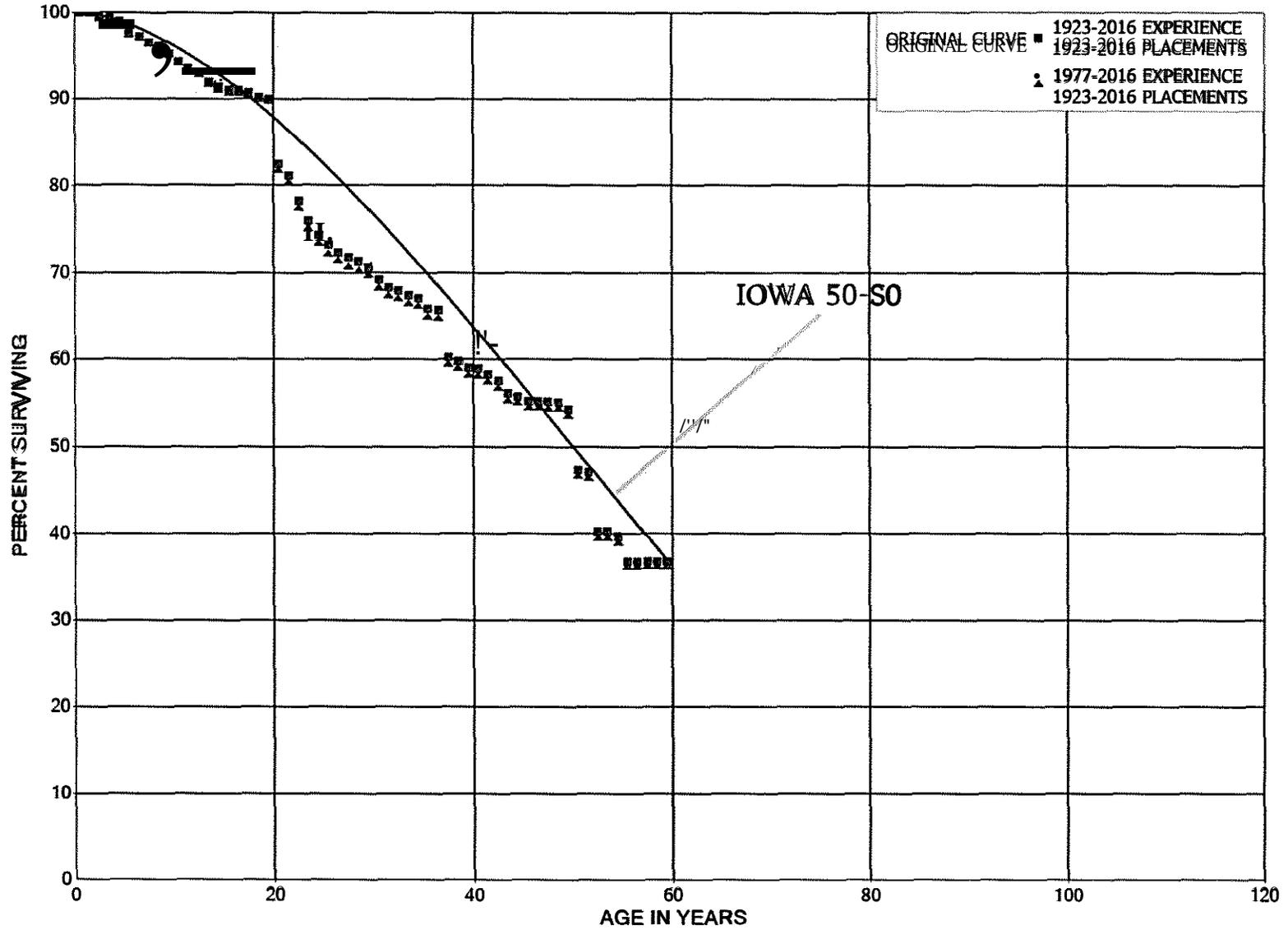
DUKE ENERGY PROGRESS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1997-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	151,597	1,374	0.0091	0.9909	53.93	
80.5	150,223		0.0000	1.0000	53.44	
81.5	150,223		0.0000	1.0000	53.44	
82.5	150,223		0.0000	1.0000	53.44	
83.5	148,676	8,291	0.0558	0.9442	53.44	
84.5	140,385	3,307	0.0236	0.9764	50.46	
85.5	137,078		0.0000	1.0000	49.27	
86.5	137,078	44,391	0.3238	0.6762	49.27	
87.5	92,687	63,917	0.6896	0.3104	33.31	
88.5	16,640		0.0000	1.0000	10.34	
89.5					10.34	

DUKE ENERGY PROGRESS
ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1923-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	92,062,847	49,935	0.0005	0.9995	100.00
0.5	83,846,823	32,261	0.0004	0.9996	99.95
1.5	79,067,687	366,029	0.0046	0.9954	99.91
2.5	74,231,925	119,617	0.0016	0.9984	99.44
3.5	71,781,358	205,970	0.0029	0.9971	99.28
4.5	66,946,252	1,024,930	0.0153	0.9847	99.00
5.5	62,486,189	186,342	0.0030	0.9970	97.48
6.5	61,043,231	430,860	0.0071	0.9929	97.19
7.5	57,914,075	234,229	0.0040	0.9960	96.51
8.5	52,671,825	505,541	0.0096	0.9904	96.12
9.5	42,830,695	423,866	0.0099	0.9901	95.19
10.5	38,248,907	319,001	0.0083	0.9917	94.25
11.5	32,435,138	147,823	0.0046	0.9954	93.47
12.5	31,370,496	365,286	0.0116	0.9884	93.04
13.5	28,191,815	188,960	0.0067	0.9933	91.96
14.5	27,098,094	96,186	0.0035	0.9965	91.34
15.5	26,516,753	42,896	0.0016	0.9984	91.02
16.5	25,737,679	60,358	0.0023	0.9977	90.87
17.5	25,083,100	148,962	0.0059	0.9941	90.66
18.5	23,666,976	46,691	0.0020	0.9980	90.12
19.5	22,897,812	1,906,703	0.0833	0.9167	89.94
20.5	19,906,418	335,795	0.0169	0.9831	82.45
21.5	19,019,375	661,583	0.0348	0.9652	81.06
22.5	17,916,335	544,507	0.0304	0.9696	78.24
23.5	16,994,973	370,135	0.0218	0.9782	75.86
24.5	16,062,872	242,508	0.0151	0.9849	74.21
25.5	15,800,001	174,327	0.0110	0.9890	73.09
26.5	14,982,659	89,498	0.0060	0.9940	72.28
27.5	13,921,135	77,325	0.0056	0.9944	71.85
28.5	13,744,528	111,934	0.0081	0.9919	71.45
29.5	13,256,028	259,116	0.0195	0.9805	70.87
30.5	12,671,061	134,035	0.0106	0.9894	69.49
31.5	12,745,893	45,078	0.0035	0.9965	68.75
32.5	12,282,872	89,721	0.0073	0.9927	68.51
33.5	8,220,142	35,625	0.0043	0.9957	68.01
34.5	8,212,951	130,891	0.0159	0.9841	67.71
35.5	7,014,359	6,583	0.0009	0.9991	66.63
36.5	5,093,835	395,731	0.0777	0.9223	66.57
37.5	4,533,932	27,637	0.0061	0.9939	61.40
38.5	4,347,681	55,598	0.0128	0.9872	61.02

DUKE ENERGY PROGRESS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1923-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.S	4,018,262	7,729	0.0019	0.9981	60.24
40.S	3,965,766	39,781	0.0100	0.9900	60.13
41.S	3,729,086	54,308	0.0146	0.9854	59.52
42.S	3,656,800	85,206	0.0233	0.9767	58.66
43.S	2,719,544	15,085	0.0055	0.9945	57.29
44.S	2,696,924	26,022	0.0096	0.9904	56.97
45.S	2,529,256	1,128	0.0004	0.9996	56.42
46.S	2,524,539	2,183	0.0009	0.9991	56.40
47.S	2,517,632	806	0.0003	0.9997	56.35
48.S	2,091,274	30,880	0.0148	0.9852	56.33
49.S	2,058,568	266,926	0.1297	0.8703	55.80
50.S	1,600,856	7,407	0.0046	0.9954	48.30
51.S	1,588,352	233,337	0.1469	0.8531	48.08
52.S	1,323,001		0.0000	1.0000	41.02
53.S	1,058,128	14,972	0.0141	0.9859	41.02
54.S	1,039,617	75,712	0.0728	0.9272	40.44
55.S	949,666		0.0000	1.0000	37.49
56.S	814,617	102	0.0001	0.9999	37.49
57.S	813,593	33	0.0000	1.0000	37.49
58.S	764,908		0.0000	1.0000	37.49
59.S	443,290	282	0.0006	0.9994	37.49
60.S	326,667	708	0.0022	0.9978	37.46
61.S	157,872		0.0000	1.0000	37.38
62.S	15,436		0.0000	1.0000	37.38
63.S	15,436	37	0.0024	0.9976	37.38
64.S	15,399		0.0000	1.0000	37.29
65.S	15,399		0.0000	1.0000	37.29
66.S	15,399		0.0000	1.0000	37.29
67.S	15,399		0.0000	1.0000	37.29
68.S	15,399		0.0000	1.0000	37.29
69.S	15,399		0.0000	1.0000	37.29
70.S	15,399		0.0000	1.0000	37.29
71.S	15,399	100	0.0065	0.9935	37.29
72.S	15,299		0.0000	1.0000	37.05
73.S	15,299		0.0000	1.0000	37.05
74.S	15,299		0.0000	1.0000	37.05
75.S	15,299	127	0.0083	0.9917	37.05
76.S	15,172	2,400	0.1582	0.8418	36.74
77.S	12,772		0.0000	1.0000	30.93
78.S	12,772		0.0000	1.0000	30.93

DUKE ENERGY PROGRESS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1923-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	12,772		0.0000	1.0000	30.93
80.5	12,772		0.0000	1.0000	30.93
81.5	12,772		0.0000	1.0000	30.93
82.5	12,772		0.0000	1.0000	30.93
83.5	12,772		0.0000	1.0000	30.93
84.5	12,772		0.0000	1.0000	30.93
85.5	12,772		0.0000	1.0000	30.93
86.5	12,772		0.0000	1.0000	30.93
87.5	12,772		0.0000	1.0000	30.93
88.5	12,772		0.0000	1.0000	30.93
89.5					30.93

DUKE ENERGY PROGRESS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	84,891,299	32,915	0.0004	0.9996	100.00
0.5	76,828,934	30,584	0.0004	0.9996	99.96
1.5	72,257,281	364,996	0.0051	0.9949	99.92
2.5	67,761,089	118,312	0.0017	0.9983	99.42
3.5	66,647,629	190,180	0.0029	0.9971	99.24
4.5	61,991,194	988,207	0.0159	0.9841	98.96
5.5	58,821,549	185,292	0.0032	0.9968	97.38
6.5	57,409,137	425,877	0.0074	0.9926	97.08
7.5	54,288,457	232,078	0.0043	0.9957	96.36
8.5	49,532,278	490,481	0.0099	0.9901	95.94
9.5	39,722,170	421,893	0.0106	0.9894	94.99
10.5	35,566,857	302,925	0.0085	0.9915	93.98
11.5	29,795,594	144,928	0.0049	0.9951	93.18
12.5	29,102,399	363,375	0.0125	0.9875	92.73
13.5	25,931,566	181,140	0.0070	0.9930	91.57
14.5	25,061,038	89,346	0.0036	0.9964	90.93
15.5	24,495,460	35,730	0.0015	0.9985	90.61
16.5	24,140,590	49,822	0.0021	0.9979	90.48
17.5	23,649,196	147,438	0.0062	0.9938	90.29
18.5	22,357,019	45,949	0.0021	0.9979	89.73
19.5	21,590,524	1,902,873	0.0881	0.9119	89.54
20.5	18,738,648	333,223	0.0178	0.9822	81.65
21.5	17,902,896	651,416	0.0364	0.9636	80.20
22.5	17,119,559	539,015	0.0315	0.9685	77.28
23.5	16,207,992	369,502	0.0228	0.9772	74.85
24.5	15,529,872	241,364	0.0155	0.9845	73.14
25.5	15,528,321	174,227	0.0112	0.9888	72.00
26.5	14,752,551	88,966	0.0060	0.9940	71.20
27.5	13,883,472	77,325	0.0056	0.9944	70.77
28.5	13,706,865	104,045	0.0076	0.9924	70.37
29.5	13,227,754	258,703	0.0196	0.9804	69.84
30.5	12,643,199	134,035	0.0106	0.9894	68.47
31.5	12,718,031	45,078	0.0035	0.9965	67.75
32.5	12,256,215	89,721	0.0073	0.9927	67.51
33.5	8,193,484	35,598	0.0043	0.9957	67.01
34.5	8,194,914	130,891	0.0160	0.9840	66.72
35.5	6,996,322	6,583	0.0009	0.9991	65.66
36.5	5,075,797	395,731	0.0780	0.9220	65.59
37.5	4,515,895	27,637	0.0061	0.9939	60.48
38.5	4,329,644	55,598	0.0128	0.9872	60.11

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 105 of 317

DUKE ENERGY PROGRESS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,000,225	7,589	0.0019	0.9981	59.34
40.5	3,947,868	39,781	0.0101	0.9899	59.23
41.5	3,711,291	53,308	0.0144	0.9856	58.63
42.S	3,640,004	85,206	0.0234	0.9766	57.79
43.S	2,702,749	15,085	0.0056	0.9944	56.43
44.S	216801129	25,122	0.0094	0.9906	56.12
45.S	2,513,361	1,128	0.0004	0.9996	55.59
46.S	2,508,681	2,183	0.0009	0.9991	55.57
47.S	2,501,774	806	0.0003	0.9997	55.52
48.S	2,075,415	30,880	0.0149	0.9851	55.50
49.5	2,042,709	266,926	0.1307	0.8693	54.68
50.S	1,587,584	7,407	0.0047	0.9953	47.53
51.S	1,575,080	233,337	0.1481	0.8519	47.31
52.S	1,309,729		0.0000	1.0000	40.30
53.S	1,058,128	14,972	0.0141	0.9859	40.30
54.S	1,039,617	75,712	0.0728	0.9272	39.73
55.S	949,666		0.0000	1.0000	36.84
56.S	814,617	102	0.0001	0.9999	36.84
57.S	813,593	33	0.0000	1.0000	36.83
58.S	764,908		0.0000	1.0000	36.83
59.S	443,290	282	0.0006	0.9994	36.83
60.S	326,667	708	0.0022	0.9978	36.81
61.S	157,872		0.0000	1.0000	36.73
62.S	15,436		0.0000	1.0000	36.73
63.S	15,436	37	0.0024	0.9976	36.73
64.S	15,399		0.0000	1.0000	36.64
65.S	15,399		0.0000	1.0000	36.64
66.S	15,399		0.0000	1.0000	36.64
67.S	15,399		0.0000	1.0000	36.64
68.S	15,399		0.0000	1.0000	36.64
69.S	15,399		0.0000	1.0000	36.64
70.S	15,399		0.0000	1.0000	36.64
71.S	15,399	100	0.0065	0.9935	36.64
72.S	15,299		0.0000	1.0000	36.40
73.S	15,299		0.0000	1.0000	36.40
74.S	15,299		0.0000	1.0000	36.40
75.S	15,299	127	0.0083	0.9917	36.40
76.S	15,172	2,400	0.1582	0.8418	36.10
77.S	12,772		0.0000	1.0000	30.39
78.S	12,772		0.0000	1.0000	30.39

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 106 of 317

DUKE ENERGY PROGRESS

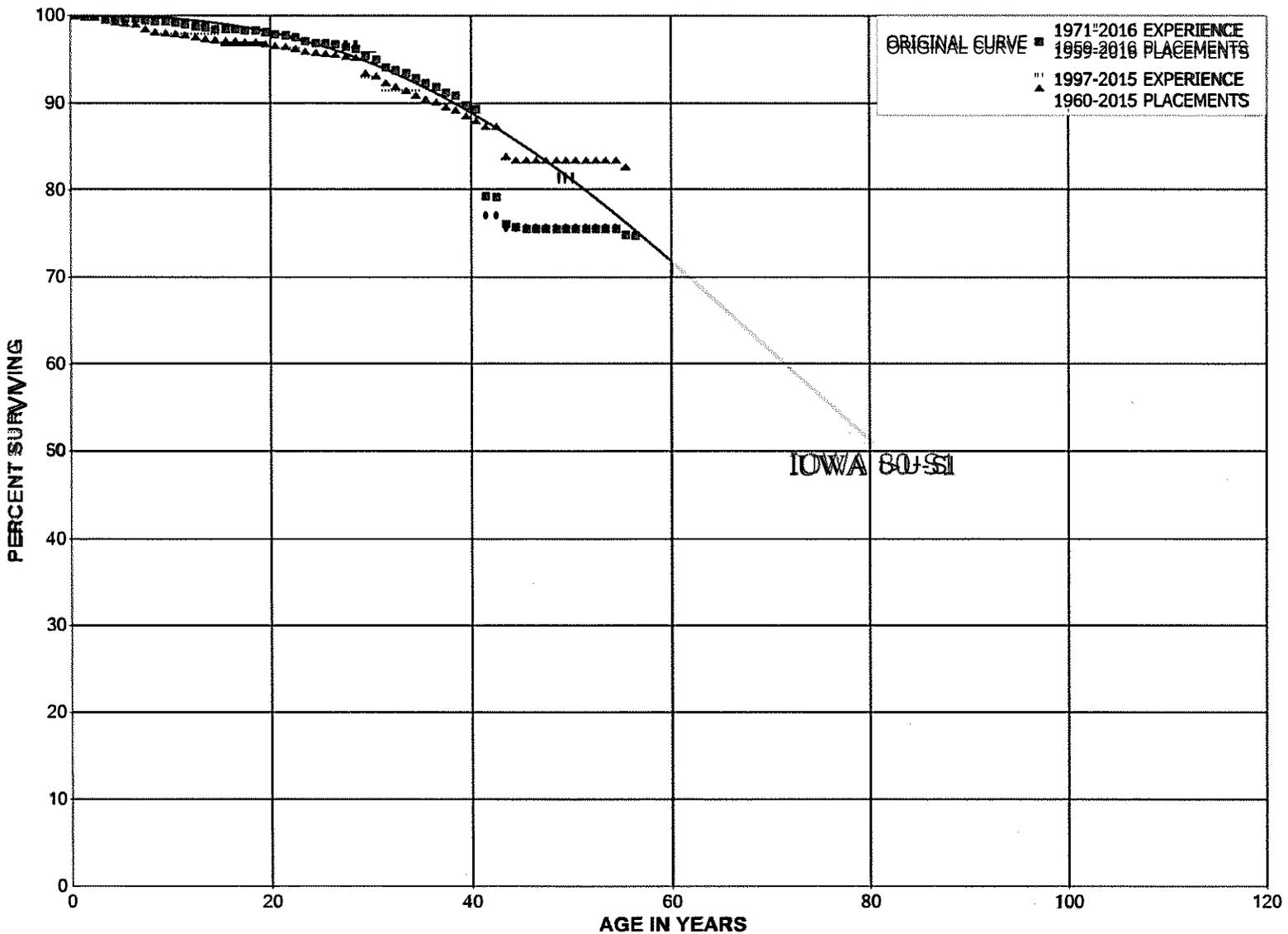
ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	12,772		0.0000	1.0000	30.39
80.5	12,772		0.0000	1.0000	30.39
81.5	12,772		0.0000	1.0000	30.39
82.5	12,772		0.0000	1.0000	30.39
83.5	12,772		0.0000	1.0000	30.39
84.5	12,772		0.0000	1.0000	30.39
85.5	12,772		0.0000	1.0000	30.39
86.5	12,772		0.0000	1.0000	30.39
87.5	12,772		0.0000	1.0000	30.39
88.5	12,772		0.0000	1.0000	30.39
89.5					30.39

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 107 of 317

DUKE ENERGY PROGRESS
ACCOUNT 321 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 321 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1959-2016

EXPERIENCE BAND 1971-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,574,404,883	1,294,439	0.0005	0.9995	100.00
0.5	2,436,987,864	2,845,714	0.0012	0.9988	99.95
1.5	2,244,191,690	250,201	0.0001	0.9999	99.83
2.5	2,214,492,223	1,266,415	0.0006	0.9994	99.82
3.5	2,194,005,599	2,283,647	0.0010	0.9990	99.76
4.5	2,136,908,541	723,999	0.0003	0.9997	99.66
5.5	2,072,027,712	1,406,743	0.0007	0.9993	99.63
6.5	1,995,017,318	2,189,800	0.0011	0.9989	99.56
7.5	1,950,1169,302	2,544,246	0.0013	0.9987	99.45
8.5	1,930,464,166	640,276	0.0003	0.9997	99.32
9.5	1,921,638,585	2,266,320	0.0012	0.9988	99.29
10.5	1,911,142,124	4,031,278	0.0021	0.9979	99.17
11.5	1,892,898,524	4,161,058	0.0022	0.9978	98.96
12.5	1,868,950,016	2,304,577	0.0012	0.9988	98.74
13.5	1,860,437,119	3,259,937	0.0018	0.9982	98.62
14.5	1,850,939,773	1,333,570	0.0007	0.9993	98.45
15.5	1,847,689,836	370,648	0.0002	0.9998	98.38
16.5	1,834,567,717	924,179	0.0005	0.9995	98.36
17.5	1,825,889,046	766,103	0.0004	0.9996	98.31
18.5	1,824,454,013	4,217,808	0.0023	0.9977	98.27
19.5	1,818,384,025	3,821,542	0.0021	0.9979	98.04
20.5	1,790,651,780	2,697,113	0.0015	0.9985	97.83
21.5	1,754,522,634	3,044,224	0.0017	0.9983	97.69
22.5	1,720,935,336	8,419,036	0.0049	0.9951	97.52
23.5	1,705,083,507	3,008,881	0.0018	0.9982	97.04
24.5	1,661,083,067	1,326,091	0.0008	0.9992	96.87
25.5	1,626,264,329	1,903,564	0.0012	0.9988	96.79
26.5	1,618,932,574	4,235,523	0.0026	0.9974	96.68
27.5	1,907,909,799	4,289,030	0.0022	0.9978	96.43
28.5	1,854,126,622	16,654,056	0.0090	0.9910	96.21
29.5	335,136,117	1,451,071	0.0043	0.9957	95.34
30.5	297,664,221	2,559,709	0.0086	0.9914	94.93
31.5	291,729,093	1,190,146	0.0041	0.9959	94.12
32.5	264,022,444	1,026,209	0.0039	0.9961	93.73
33.5	230,700,606	1,444,518	0.0063	0.9937	93.37
34.5	229,184,548	1,341,359	0.0059	0.9941	92.78
35.5	219,196,375	931,055	0.0042	0.9958	92.24
36.5	202,945,472	1,472,161	0.0073	0.9927	91.85
37.5	193,824,221	851,556	0.0044	0.9956	91.18
38.5	190,596,143	2,165,996	0.0114	0.9886	90.78

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 109 of 317

DUKE ENERGY PROGRESS

ACCOUNT 321 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1971-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	146,215,956	816,200	0.0056	0.9944	89.75	
40.5	142,017,903	15,879,753	0.1118	0.8882	89.25	
41.5	18,721,815	12,477	0.0007	0.9993	79.27	
42.5	18,633,641	745,045	0.0400	0.9600	79.22	
43.5	17,868,737	79,381	0.0044	0.9956	76.05	
44.5	16,849,470	42,643	0.0025	0.9975	75.71	
45.5	620		0.0000	1.0000	75.52	
46.5	2,227		0.0000	1.0000	75.52	
47.5	2,549		0.0000	1.0000	75.52	
48.5	2,177		0.0000	1.0000	75.52	
49.5	570		0.0000	1.0000	75.52	
50.5	1,492		0.0000	1.0000	75.52	
51.5	1,429		0.0000	1.0000	75.52	
52.5	3,584,883		0.0000	1.0000	75.52	
53.5	4,923,835		0.0000	1.0000	75.52	
54.5	4,923,835	46,627	0.0095	0.9905	75.52	
55.5	4,877,208	2,485	0.0005	0.9995	74.80	
56.5					74.77	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 110 of 317

DUKE ENERGY PROGRESS

ACCOUNT 321 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2015

EXPERIENCE BAND 1997-2015

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	495,959,273		0.0000	1.00000	100.00
0.5	399,940,822	1,357,305	0.0034	0.9966	100.00
1.5	397,447,055	246,939	0.0006	0.9994	99.66
2.5	395,562,487	1,097,127	0.0028	0.9972	99.60
3.5	351,830,181	960,663	0.0027	0.9973	99.32
4.5	348,964,734	538,301	0.0015	0.9985	99.05
5.5	301,188,994	99,364	0.0003	0.9997	98.90
6.5	293,880,314	1,773,488	0.0060	0.9940	98.87
7.5	320,914,258	880,828	0.0027	0.9973	98.27
8.5	356,934,266	465,061	0.0013	0.9987	98.00
9.5	1,535,781,981	1,873,260	0.0012	0.9988	97.87
10.5	1,562,043,850	2,613,830	0.0017	0.9983	97.75
11.5	1,565,377,145	3,957,526	0.0025	0.9975	97.59
12.5	1,587,950,127	2,000,473	0.0013	0.9987	97.34
13.5	1,607,607,744	3,231,863	0.0020	0.9980	97.22
14.5	1,606,774,854	1,222,802	0.0008	0.9992	97.02
15.5	1,603,200,703	370,439	0.0002	0.9998	96.95
16.5	1,609,993,024	924,172	0.0006	0.9994	96.93
17.5	1,628,271,631	764,897	0.0005	0.9995	96.87
18.5	1,627,922,331	3,966,513	0.0024	0.9976	96.83
19.5	1,654,644,427	3,821,542	0.0023	0.9977	96.59
20.5	1,624,470,136	1,583,119	0.0010	0.9990	96.37
21.5	1,695,771,854	2,731,838	0.0016	0.9984	96.27
22.5	1,686,443,374	6,794,768	0.0040	0.9960	96.12
23.5	1,640,031,201	2,212,339	0.0013	0.9987	95.73
24.5	1,605,635,230	1,234,701	0.0008	0.9992	95.60
25.5	1,611,269,418	1,492,272	0.0009	0.9991	95.53
26.5	1,1570,937,335	4,122,875	0.0026	0.9974	95.44
27.5	1,853,214,987	3,128,517	0.0017	0.9983	95.19
28.5	339,870,061	6,061,530	0.0178	0.9822	95.03
29.5	296,174,202	1,324,922	0.0045	0.9955	93.33
30.5	288,012,852	2,434,484	0.0085	0.9915	92.92
31.5	264,815,813	1,177,335	0.0044	0.9956	92.13
32.5	229,441,363	998,313	0.0044	0.9956	91.72
33.5	228,491,377	1,444,424	0.0063	0.9937	91.32
34.5	217,307,294	1,230,947	0.0057	0.9943	90.75
35.5	203,326,006	724,459	0.0036	0.9964	90.23
36.5	183,173,909	945,826	0.0052	0.9948	89.91
37.5	190,909,779	849,958	0.0045	0.9955	89.45
38.5	127,823,825	937,352	0.0073	0.9927	89.05

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 111 of 317

DUKE ENERGY PROGRESS

ACCOUNT 321 STRUCTURES AND IMPROVEMENTS

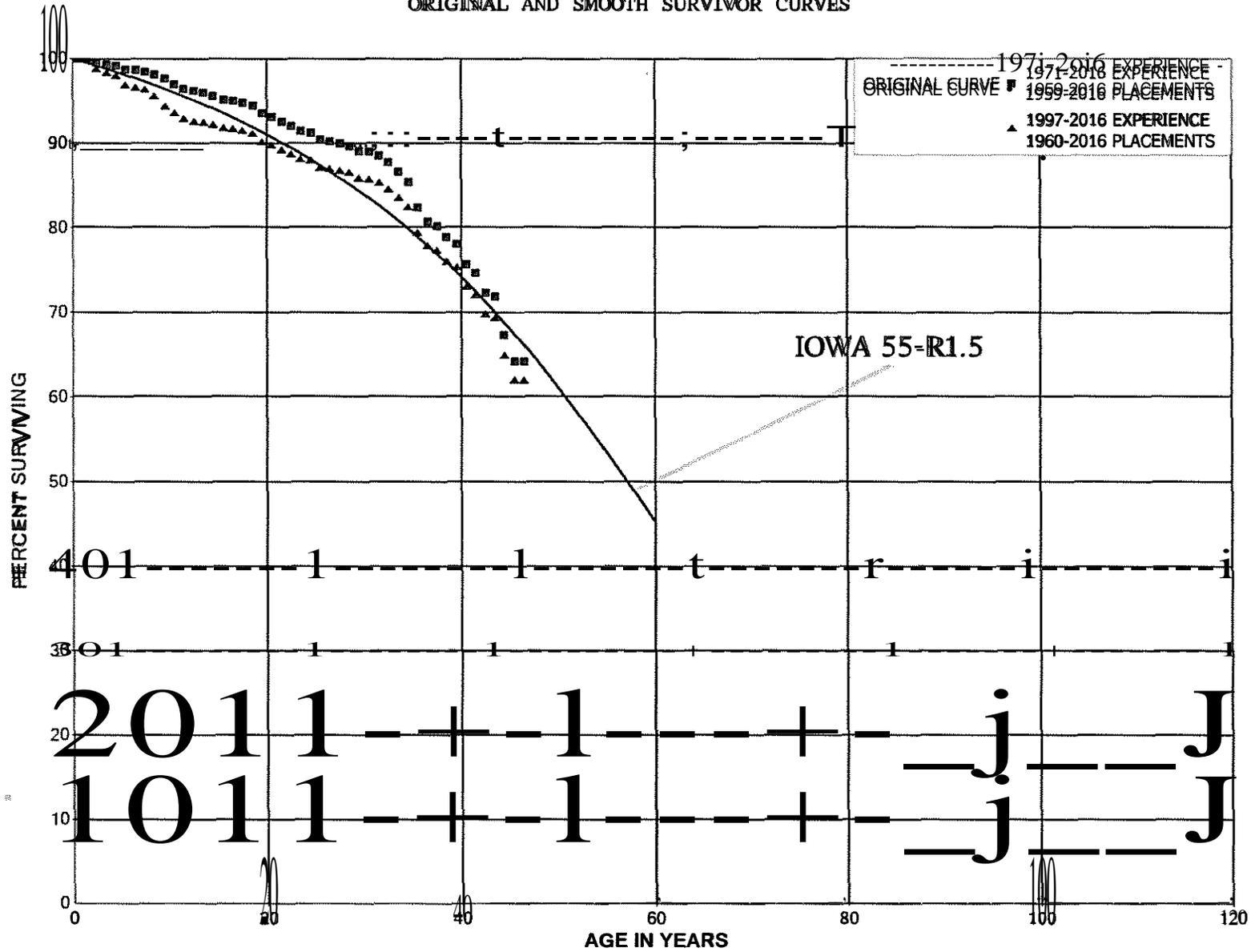
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2015

EXPERIENCE BAND 1997-2015

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	142,822,549	816,200	0.0057	0.9943	88.39
40.5	18,857,952	142,897	0.0076	0.9924	87.89
41.5	18,645,880	12,477	0.0007	0.9993	87.22
42.5	18,613,782	745,045	0.0400	0.9600	87.16
43.5	16,928,666	79,381	0.0047	0.9953	83.68
44.5	185		0.0000	1.0000	83.28
45.5	620		0.0000	1.0000	83.28
46.5	2,042		0.0000	1.0000	83.28
47.5	2,114		0.0000	1.0000	83.28
48.5	570		0.0000	1.0000	83.28
49.5	63		0.0000	1.0000	83.28
50.5	1,429		0.0000	1.0000	83.28
51.5	1,429		0.0000	1.0000	83.28
52.5	3,583,454		0.0000	1.0000	83.28
53.5	4,923,835		0.0000	1.0000	83.28
54.5	4,923,835	46,627	0.0095	0.9905	83.28
55.5					82.49

DUKE ENERGY PROGRESS
ACCOUNT 322 REACTOR PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VI-50

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 322 REACTOR PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1959-2016

EXPERIENCE BAND 1971-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,537,180,363	426,762	0.0002	0.9998	100.00
0.5	2,373,857,778	517,722	0.0002	0.9998	99.98
1.5	2,226,544,805	10,156,219	0.0046	0.9954	99.96
2.5	2,190,889,899	4,017,922	0.0018	0.9982	99.51
3.5	2,068,927,382	3,163,246	0.0015	0.9985	99.32
4.5	1,986,330,258	7,870,228	0.0040	0.9960	99.17
5.5	1,921,323,185	2,978,491	0.0016	0.9984	98.78
6.5	1,827,799,090	4,957,876	0.0027	0.9973	98.63
7.5	1,775,970,573	5,488,620	0.0031	0.9969	98.36
8.5	1,747,923,040	9,682,893	0.0055	0.9945	98.05
9.5	1,717,501,970	9,192,803	0.0054	0.9946	97.51
10.5	1,704,374,938	10,548,411	0.0062	0.9938	96.99
11.5	1,611,488,921	3,177,176	0.0020	0.9980	96.39
12.5	1,589,849,864	4,400,637	0.0028	0.9972	96.20
13.5	1,596,038,386	7,573,084	0.0047	0.9953	95.93
14.5	1,571,457,893	6,923,511	0.0044	0.9956	95.48
15.5	1,410,497,773	2,125,825	0.0015	0.9985	95.06
16.5	1,399,841,915	2,370,862	0.0017	0.9983	94.91
17.5	1,361,710,608	5,563,313	0.0041	0.9959	94.75
18.5	1,351,216,979	12,281,532	0.0091	0.9909	94.36
19.5	1,303,512,004	6,699,537	0.0051	0.9949	93.51
20.5	1,294,095,056	6,804,017	0.0053	0.9947	93.03
21.5	1,265,285,828	7,946,284	0.0063	0.9937	92.54
22.5	1,177,327,186	7,576,316	0.0064	0.9936	91.96
23.5	1,167,260,600	2,032,129	0.0017	0.9983	91.36
24.5	1,145,584,250	10,811,831	0.0094	0.9906	91.21
25.5	1,109,249,101	1,712,282	0.0015	0.9985	90.34
26.5	1,096,524,491	3,652,817	0.0033	0.9967	90.21
27.5	1,198,421,654	3,243,047	0.0027	0.9973	89.90
28.5	1,155,812,264	7,643,283	0.0066	0.9934	89.66
29.5	515,854,740	796,641	0.0015	0.9985	89.07
30.5	518,345,098	2,582,973	0.0050	0.9950	88.93
31.5	466,171,373	4,181,524	0.0090	0.9910	88.49
32.5	282,705,837	3,431,879	0.0121	0.9879	87.69
33.5	245,087,593	3,438,362	0.0140	0.9860	86.63
34.5	239,170,588	8,601,141	0.0360	0.9640	85.41
35.5	227,420,104	4,607,451	0.0203	0.9797	82.34
36.5	215,987,976	1,472,395	0.0068	0.9932	80.67
37.5	224,952,496	3,754,327	0.0167	0.9833	80.12
38.5	216,793,560	1,967,944	0.0091	0.9909	78.79

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 114 of 317

DUKE ENERGY PROGRESS

ACCOUNT 322 REACTOR PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1971-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	113,902,362	3,570,108	0.0313	0.9687	78.07
40.5	107,298,040	1,386,079	0.0129	0.9871	75.62
41.5	12,092,078	375,926	0.0311	0.9689	74.65
42.5	11,355,597	68,611	0.0060	0.9940	72.33
43.5	11,239,839	726,925	0.0647	0.9353	71.89
44.5	9,958,579	446,312	0.0448	0.9552	67.24
45.5	4,667		0.0000	1.0000	64.23
46.5					64.23
47.5					
48.5					
49.5					
50.5					
51.5					
52.5	58,520		0.0000		
53.5	65,078		0.0000		
54.5	65,078		0.0000		
55.5	65,078		0.0000		
56.5					

DUKE ENERGY PROGRESS

ACCOUNT 322 REACTOR PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	941,569,567	426,762	0.0005	0.9995	100.00
0.5	888,621,499	190,043	0.0002	0.9998	99.95
1.5	771,847,184	10,155,081	0.0132	0.9868	99.93
2.5	826,670,480	3,845,031	0.0047	0.9953	98.62
3.5	716,999,205	2,582,228	0.0036	0.9964	98.16
4.5	666,654,416	7,076,264	0.0106	0.9894	97.81
5.5	659,497,069	2,668,414	0.0040	0.9960	96.77
6.5	608,240,952	1,307,199	0.0021	0.9979	96.38
7.5	613,274,436	5,250,830	0.0086	0.9914	96.17
8.5	626,702,588	7,384,613	0.0118	0.9882	95.35
9.5	1,173,919,359	10,731,468	0.0091	0.9909	94.22
10.5	1,167,012,086	8,329,711	0.0071	0.9929	93.36
11.5	1,126,330,208	3,022,423	0.0027	0.9973	92.69
12.5	1,278,568,444	2,174,258	0.0017	0.9983	92.45
13.5	1,319,745,687	2,891,838	0.0022	0.9978	92.29
14.5	1,303,974,571	6,861,387	0.0053	0.9947	92.09
15.5	1,148,366,465	1,597,838	0.0014	0.9986	91.60
16.5	1,146,044,083	2,029,948	0.0018	0.9982	91.47
17.5	1,118,140,499	4,032,637	0.0036	0.9964	91.31
18.5	1,113,970,603	12,277,292	0.0110	0.9890	90.98
19.5	1,181,328,452	5,100,465	0.0043	0.9957	89.98
20.5	1,176,348,803	6,421,957	0.0055	0.9945	89.59
21.5	1,247,050,287	7,946,284	0.0064	0.9936	89.10
22.5	1,159,522,635	7,298,966	0.0063	0.9937	88.54
23.5	1,149,787,940	1,775,855	0.0015	0.9985	87.98
24.5	1,129,653,923	10,811,831	0.0096	0.9904	87.84
25.5	1,109,155,927	1,712,282	0.0015	0.9985	87.00
26.5	1,096,431,317	3,652,817	0.0033	0.9967	86.87
27.5	1,198,328,479	3,243,047	0.0027	0.9973	86.58
28.5	1,155,719,090	7,643,283	0.0066	0.9934	86.34
29.5	515,854,740	796,641	0.0015	0.9985	85.77
30.5	518,345,098	2,582,973	0.0050	0.9950	85.64
31.5	466,171,373	4,181,524	0.0090	0.9910	85.21
32.5	282,705,837	3,431,879	0.0121	0.9879	84.45
33.5	245,087,593	3,438,362	0.0140	0.9860	83.42
34.5	239,170,588	8,601,141	0.0360	0.9640	82.25
35.5	227,420,104	4,607,451	0.0203	0.9797	79.30
36.5	215,987,976	1,472,395	0.0068	0.9932	77.69
37.5	224,952,496	3,754,327	0.0167	0.9833	77.16
38.5	216,793,560	1,967,944	0.0091	0.9909	75.87

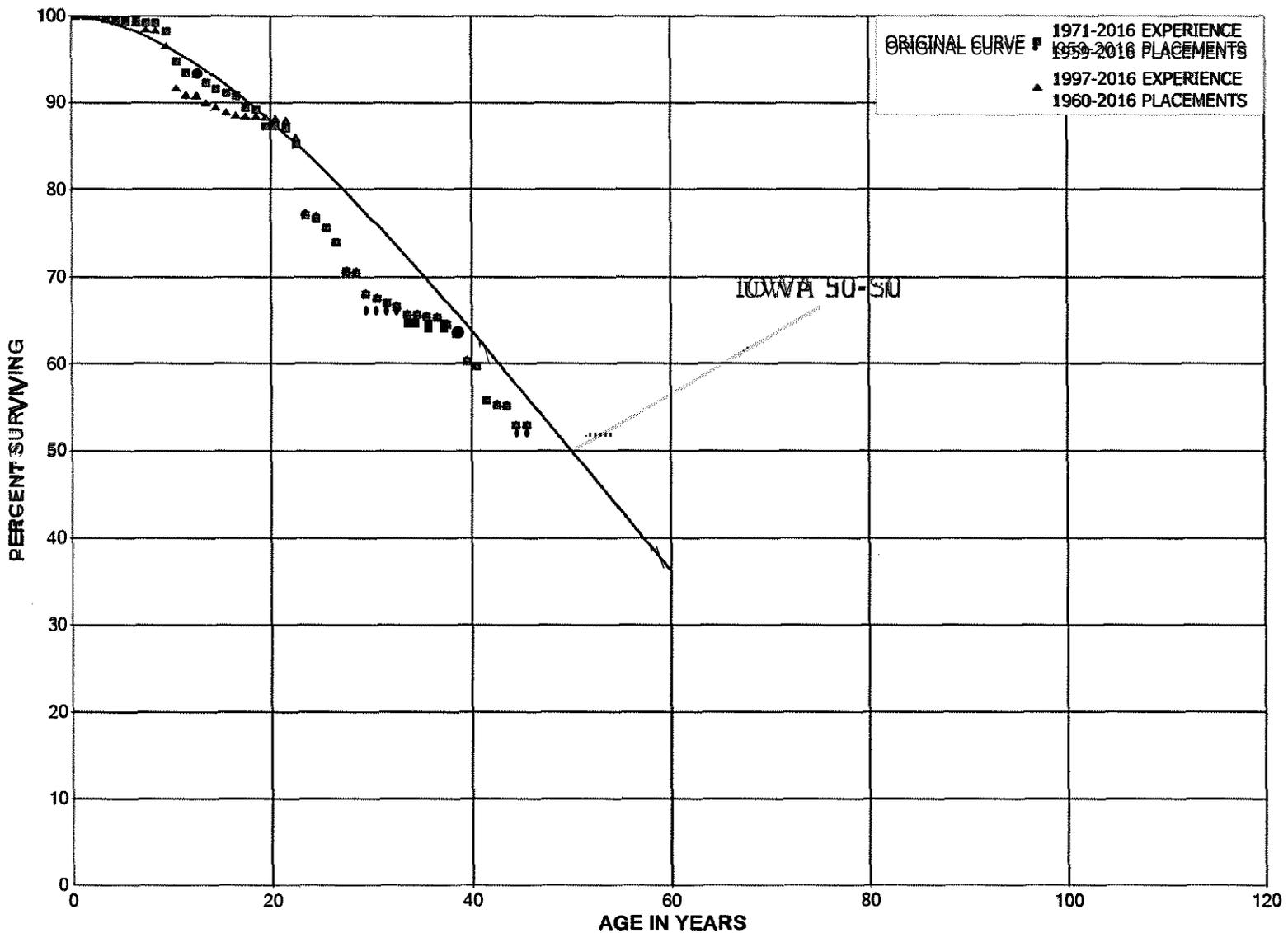
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 116 of 317

DUKE ENERGY PROGRESS
ACCOUNT 322 REACTOR PLANT EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	113,902,362	3,570,108	0.0313	0.9687	75.18
40.5	107,298,040	1,386,079	0.0129	0.9871	72.83
41.5	12,092,078	375,926	0.0311	0.9689	71.89
42.5	11,355,597	68,611	0.0060	0.9940	69.65
43.5	11,239,839	726,925	0.0647	0.9353	69.23
44.5	9,958,579	446,312	0.0448	0.9552	64.75
45.5	4,667		0.0000	1.0000	61.85
46.5					61.85
47.5					
48.5					
49.5					
50.5					
51.5					
52.5	58,520		0.0000		
53.5	65,078		0.0000		
54.5	65,078		0.0000		
55.5	65,078		0.0000		
56.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 117 of 317

DUKE ENERGY PROGRESS
ACCOUNT 323 TURBOGENERATOR EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 323 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1959-2016

EXPERIENCE BAND 1971-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	980,770,230		0.0000	1.0000	100.00
0.5	939,633,511	103,330	0.0001	0.9999	100.00
1.5	894,613,651	60,935	0.0001	0.9999	99.99
2.5	867,153,546	2,528,824	0.0029	0.9971	99.98
3.5	845,231,101	1,244,192	0.0015	0.9985	99.69
4.5	714,806,225	387,261	0.0005	0.9995	99.54
5.5	700,970,206	359,367	0.0005	0.9995	99.49
6.5	603,586,750	1,527,714	0.0025	0.9975	99.44
7.5	598,945,379	161,219	0.0003	0.9997	99.19
8.5	569,220,670	5,621,148	0.0099	0.9901	99.16
9.5	560,365,966	19,988,097	0.0357	0.9643	98.18
10.5	540,576,455	7,350,448	0.0136	0.9864	94.68
11.5	518,091,643	682,600	0.0013	0.9987	93.39
12.5	505,834,018	5,583,790	0.0110	0.9890	93.27
13.5	492,249,695	4,004,481	0.0081	0.9919	92.24
14.5	464,035,180	2,297,077	0.0050	0.9950	91.49
15.5	438,007,278	1,686,056	0.0038	0.9962	91.04
16.5	427,911,868	6,175,259	0.0144	0.9856	90.69
17.5	421,155,495	799,687	0.0019	0.9981	89.38
18.5	422,789,796	8,851,704	0.0209	0.9791	89.21
19.5	418,790,180	306,969	0.0007	0.9993	87.34
20.5	406,586,076	890,195	0.0022	0.9978	87.28
21.5	372,467,474	8,256,570	0.0222	0.9778	87.08
22.5	354,601,629	33,460,495	0.0944	0.9056	85.15
23.5	319,490,420	1,593,849	0.0050	0.9950	77.12
24.5	313,846,978	4,762,262	0.0152	0.9848	76.73
25.5	308,822,764	6,838,433	0.0221	0.9779	75.57
26.5	302,311,929	13,409,881	0.0444	0.9556	73.90
27.5	320,233,302	651,881	0.0020	0.9980	70.62
28.5	314,788,989	11,044,845	0.0351	0.9649	70.47
29.5	120,954,011	1,087,313	0.0090	0.9910	68.00
30.5	117,016,340	869,017	0.0074	0.9926	67.39
31.5	119,657,532	696,729	0.0058	0.9942	66.89
32.5	97,512,513	1,242,915	0.0127	0.9873	66.50
33.5	79,615,913	56,932	0.0007	0.9993	65.65
34.5	72,045,959	174,536	0.0024	0.9976	65.61
35.5	66,503,478	147,569	0.0022	0.9978	65.45
36.5	65,633,100	804,431	0.0123	0.9877	65.30
37.5	67,356,260	1,109,346	0.0165	0.9835	64.50
38.5	64,986,589	3,182,741	0.0490	0.9510	63.44

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 119 of 317

DUKE ENERGY PROGRESS

ACCOUNT 323 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1971-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	40,064,479	425,591	0.0106	0.9894	60.33
40.5	39,638,675	2,571,954	0.0649	0.9351	59.69
41.5	11,780,331	114,633	0.0097	0.9903	55.82
42.5	11,452,731	22,938	0.0020	0.9980	55.28
43.5	11,429,793	468,780	0.0410	0.9590	55.16
44.5	9,911,488		0.0000	1.0000	52.90
45.5					52.90
46.5					
47.5					
48.5					
49.5					
50.5					
51.5					
52.5					
53.5	146,163		0.0000		
54.5	146,163		0.0000		
55.5	146,163		0.0000		
56.5					

DUKE ENERGY PROGRESS

ACCOUNT 323 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	519,282,266		0.0000	1.0000	100.00
0.5	477,594,718		0.0000	1.0000	100.00
1.5	469,867,861	60,858	0.0001	0.9999	100.00
2.5	451,533,377	2,527,026	0.0056	0.9944	99.99
3.5	428,067,422	1,244,128	0.0029	0.9971	99.43
4.5	299,535,909	321,265	0.0011	0.9989	99.14
5.5	295,251,338	294,045	0.0010	0.9990	99.03
6.5	202,602,549	1,432,829	0.0071	0.9929	98.93
7.5	200,256,725	62,249	0.0003	0.9997	98.23
8.5	189,422,258	3,425,924	0.0181	0.9819	98.20
9.5	387,320,281	19,603,991	0.0506	0.9494	96.43
10.5	373,462,027	3,515,739	0.0094	0.9906	91.55
11.5	355,361,401	220,721	0.0006	0.9994	90.68
12.5	363,791,782	3,306,465	0.0091	0.9909	90.63
13.5	366,797,517	2,267,194	0.0062	0.9938	89.80
14.5	348,049,278	2,001,463	0.0058	0.9942	89.25
15.5	327,398,131	1,446,407	0.0044	0.9956	88.74
16.5	318,611,258	38,228	0.0001	0.9999	88.34
17.5	320,860,137	246,088	0.0008	0.9992	88.33
18.5	325,109,407	444,575	0.0014	0.9986	88.27
19.5	359,982,169	306,969	0.0009	0.9991	88.15
20.5	347,785,424	890,195	0.0026	0.9974	88.07
21.5	355,264,944	8,256,570	0.0232	0.9768	87.84
22.5	337,622,011	33,460,495	0.0991	0.9009	85.80
23.5	302,510,803	1,593,849	0.0053	0.9947	77.30
24.5	297,966,680	4,762,262	0.0160	0.9840	76.89
25.5	308,822,764	6,838,433	0.0221	0.9779	75.66
26.5	302,311,929	13,409,881	0.0444	0.9556	73.99
27.5	320,233,302	651,881	0.0020	0.9980	70.71
28.5	314,788,989	11,044,845	0.0351	0.9649	70.56
29.5	120,954,011	1,087,313	0.0090	0.9910	68.09
30.5	117,016,340	869,017	0.0074	0.9926	67.47
31.5	119,657,532	696,729	0.0058	0.9942	66.97
32.5	97,512,513	1,242,915	0.0127	0.9873	66.58
33.5	79,615,913	56,932	0.0007	0.9993	65.73
34.5	72,045,959	174,536	0.0024	0.9976	65.69
35.5	66,503,478	147,569	0.0022	0.9978	65.53
36.5	65,633,100	804,431	0.0123	0.9877	65.38
37.5	67,356,260	1,109,346	0.0165	0.9835	64.58
38.5	64,986,589	3,182,741	0.0490	0.9510	63.52

DUKE ENERGY PROGRESS

ACCOUNT 323 TURBOGENERATOR EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	40,064,479	425,591	0.0106	0.9894	60.41
40.5	39,638,675	2,571,954	0.0649	0.9351	59.77
41.5	11,780,331	114,633	0.0097	0.9903	55.89
42.5	11,452,731	22,938	0.0020	0.9980	55.34
43.5	11,429,793	468,780	0.0410	0.9590	55.23
44.5	9,911,488		0.0000	1.0000	52.97
45.5					52.97
46.5					
47.5					
48.5					
49.5					
50.5					
51.5					
52.5					
53.5	146,163		0.0000		
54.5	146,163		0.0000		
55.5	146,163		0.0000		
56.5					

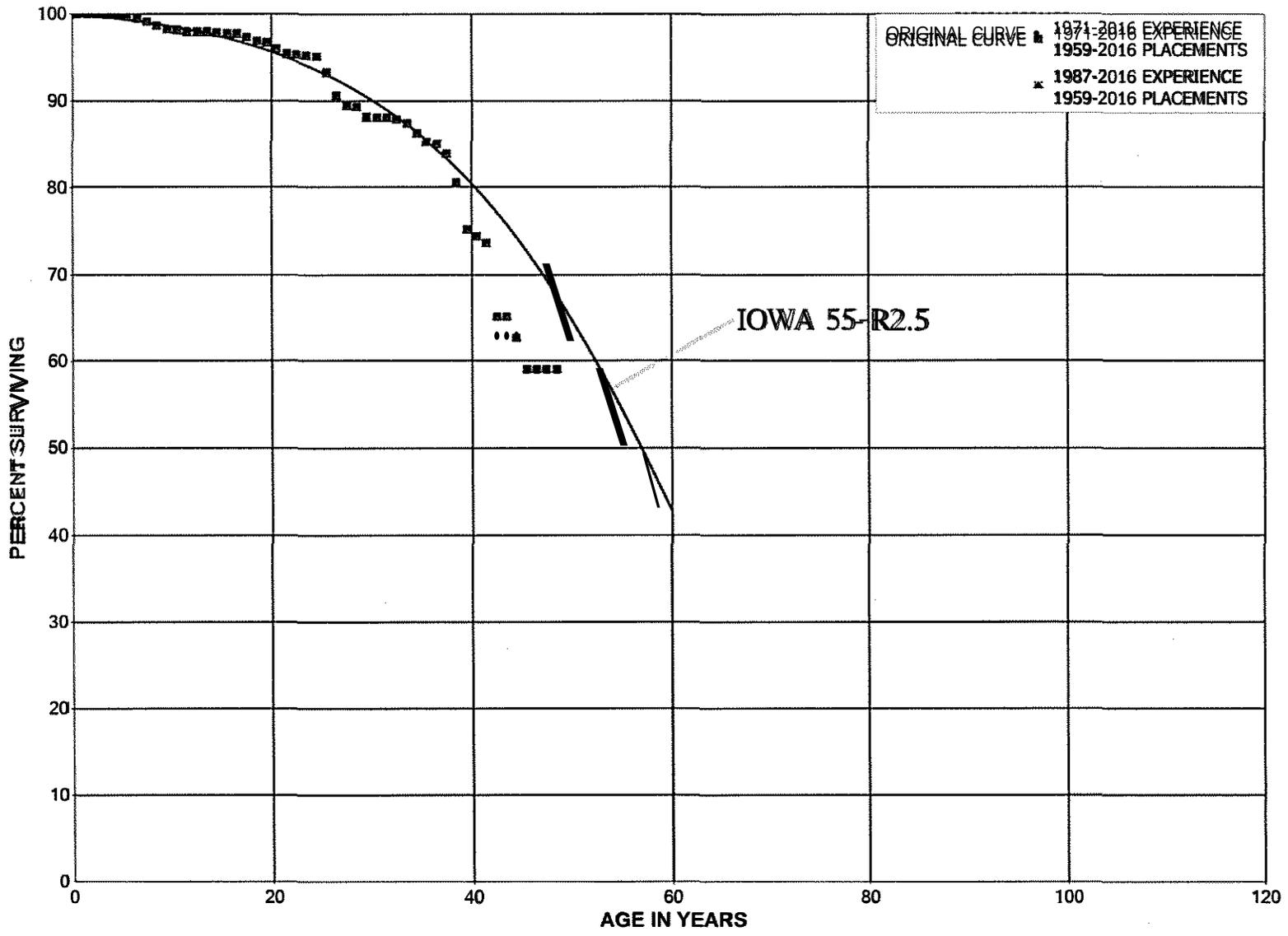


Gannett Fleming

WL-60

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1959-2016

EXPERIENCE BAND 1971-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,350,144,644		0.0000	1.0000	100.00
0.5	1,050,715,266	721,007	0.0007	0.9993	100.00
1.5	963,050,167	169,213	0.0002	0.9998	99.93
2.5	881,085,135	254,086	0.0003	0.9997	99.91
3.5	819,864,551	488,209	0.0006	0.9994	99.89
4.5	785,500,250	2,077,030	0.0026	0.9974	99.83
5.5	778,202,933	1,169,724	0.0015	0.9985	99.56
6.5	705,224,268	2,074,970	0.0029	0.9971	99.41
7.5	694,562,123	3,782,343	0.0054	0.9946	99.12
8.5	687,653,141	2,599,294	0.0038	0.9962	98.58
9.5	682,687,402	466,437	0.0007	0.9993	98.21
10.5	680,727,556	1,434,685	0.0021	0.9979	98.14
11.5	672,941,899	29,439	0.0000	1.0000	97.93
12.5	671,288,948	223,445	0.0003	0.9997	97.93
13.5	670,664,278	462,764	0.0007	0.9993	97.90
14.5	668,612,149	338,485	0.0005	0.9995	97.83
15.5	665,935,830	400,407	0.0006	0.9994	97.78
16.5	663,460,756	2,879,640	0.0043	0.9957	97.72
17.5	659,975,080	2,923,370	0.0044	0.9956	97.30
18.5	656,752,359	1,188,679	0.0018	0.9982	96.87
19.5	654,051,940	4,711,066	0.0072	0.9928	96.69
20.5	653,782,345	4,438,484	0.0068	0.9932	95.99
21.5	643,676,606	173,441	0.0003	0.9997	95.34
22.5	606,675,342	871,876	0.0014	0.9986	95.32
23.5	604,853,257	741,547	0.0012	0.9988	95.18
24.5	598,464,137	11,377,585	0.0190	0.9810	95.06
25.5	578,772,057	16,168,986	0.0279	0.9721	93.26
26.5	566,364,724	7,741,968	0.0137	0.9863	90.65
27.5	678,522,566	1,105,064	0.0016	0.9984	89.41
28.5	650,573,363	8,272,352	0.0127	0.9873	89.27
29.5	109,536,718	40,081	0.0004	0.9996	88.13
30.5	94,180,625	60,060	0.0006	0.9994	88.10
31.5	93,295,530	247,166	0.0026	0.9974	88.04
32.5	85,704,267	380,954	0.0044	0.9956	87.81
33.5	85,482,606	1,129,566	0.0132	0.9868	87.42
34.5	84,381,681	982,012	0.0116	0.9884	86.26
35.5	82,389,163	157,572	0.0019	0.9981	85.26
36.5	80,428,479	1,032,041	0.0128	0.9872	85.10
37.5	84,149,022	3,413,667	0.0406	0.9594	84.00
38.5	80,281,751	5,409,899	0.0674	0.9326	80.60

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 124 of 317

DUKE ENERGY PROGRESS

ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1971-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	54,416,483	534,277	0.0098	0.9902	75.17
40.5	53,750,248	600,892	0.0112	0.9888	74.43
41.5	8,077,840	920,041	0.1139	0.8861	73.60
42.5	6,971,776		0.0000	1.0000	65.21
43.5	6,971,776	264,472	0.0379	0.9621	65.21
44.5	6,707,304	389,529	0.0581	0.9419	62.74
45.5	1,127		0.0000	1.0000	59.10
46.5	1,127		0.0000	1.0000	59.10
47.5	1,127		0.0000	1.0000	59.10
48.5					59.10
49.5					
50.5					
51.5	213		0.0000		
52.5	213		0.0000		
53.5	50,660		0.0000		
54.5	50,447		0.0000		
55.5	50,447		0.0000		
56.5					

DUKE ENERGY PROGRESS

ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1959-2016

EXPERIENCE BAND 1987-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,223,143,342		0.0000	1.0000	100.00
0.5	942,585,946	721,007	0.0008	0.9992	100.00
1.5	855,959,829	154,476	0.0002	0.9998	99.92
2.5	781,303,640	254,086	0.0003	0.9997	99.91
3.5	720,144,177	488,209	0.0007	0.9993	99.87
4.5	685,882,722	2,077,030	0.0030	0.9970	99.81
5.5	680,371,922	1,169,724	0.0017	0.9983	99.50
6.5	609,666,611	2,074,970	0.0034	0.9966	99.33
7.5	608,343,931	3,782,343	0.0062	0.9938	98.99
8.5	603,695,899	2,591,294	0.0043	0.9957	98.38
9.5	631,509,933	466,437	0.0007	0.9993	97.96
10.5	630,047,557	1,434,685	0.0023	0.9977	97.88
11.5	664,356,662	29,439	0.0000	1.0000	97.66
12.5	662,896,277	223,445	0.0003	0.9997	97.66
13.5	662,274,929	462,764	0.0007	0.9993	97.62
14.5	660,651,468	338,485	0.0005	0.9995	97.56
15.5	665,916,977	400,407	0.0006	0.9994	97.51
16.5	663,441,902	2,879,640	0.0043	0.9957	97.45
17.5	659,956,227	2,923,370	0.0044	0.9956	97.02
18.5	656,733,506	1,188,679	0.0018	0.9982	96.59
19.5	654,033,087	4,711,066	0.0072	0.9928	96.42
20.5	653,763,492	4,438,484	0.0068	0.9932	95.72
21.5	643,657,753	173,441	0.0003	0.9997	95.07
22.5	606,656,489	871,876	0.0014	0.9986	95.05
23.5	604,834,403	741,547	0.0012	0.9988	94.91
24.5	598,445,284	11,377,585	0.0190	0.9810	94.80
25.5	578,753,204	16,168,986	0.0279	0.9721	92.99
26.5	566,345,871	7,741,968	0.0137	0.9863	90.40
27.5	678,522,566	1,105,064	0.0016	0.9984	89.16
28.5	650,573,363	8,272,352	0.0127	0.9873	89.02
29.5	109,536,718	40,081	0.0004	0.9996	87.88
30.5	94,180,625	60,060	0.0006	0.9994	87.85
31.5	93,295,530	247,166	0.0026	0.9974	87.79
32.5	85,704,267	380,954	0.0044	0.9956	87.56
33.5	85,482,606	1,129,566	0.0132	0.9868	87.17
34.5	84,381,681	982,012	0.0116	0.9884	86.02
35.5	82,389,163	157,572	0.0019	0.9981	85.02
36.5	80,428,479	1,032,041	0.0128	0.9872	84.86
37.5	84,149,022	3,413,667	0.0406	0.9594	83.77
38.5	80,281,751	5,409,899	0.0674	0.9326	80.37

DUKE ENERGY PROGRESS

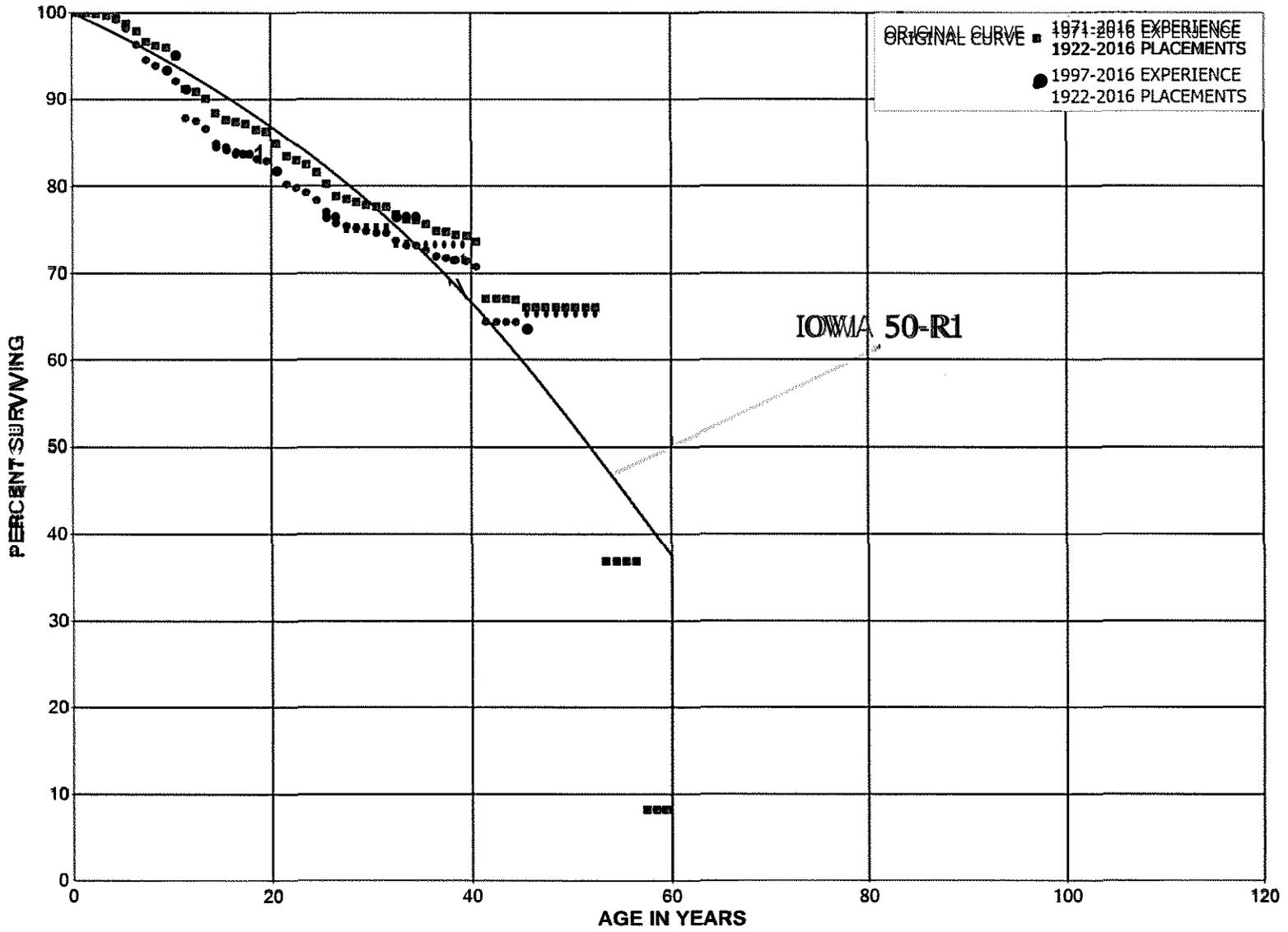
ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1987-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	54,416,483	534,277	0.0098	0.9902	74.95	
40.5	53,750,248	600,892	0.0112	0.9888	74.22	
41.5	8,077,840	920,041	0.1139	0.8861	73.39	
42.5	6,971,776		0.0000	1.0000	65.03	
43.5	6,971,776	264,472	0.0379	0.9621	65.03	
44.5	6,707,304	389,529	0.0581	0.9419	62.56	
45.5	1,127		0.0000	1.0000	58.93	
46.5	1,127		0.0000	1.0000	58.93	
47.5	1,127		0.0000	1.0000	58.93	
48.5					58.93	
49.5						
50.5						
51.5	213		0.0000			
52.5	213		0.0000			
53.5	50,660		0.0000			
54.5	50,447		0.0000			
55.5	50,447		0.0000			
56.5						

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 127 of 317

DUKE ENERGY PROGRESS
ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VI-65

Duke Energy Progress
December 31, 2015

DUKE ENERGY PROGRESS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1922-2016

EXPERIENCE BAND 1971-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	617,557,642		0.0000	1.0000	100.00
0.5	528,091,821	239,321	0.0005	0.9995	100.00
1.5	472,155,620	715,521	0.0015	0.9985	99.95
2.5	463,303,041	711,133	0.0015	0.9985	99.80
3.5	433,709,780	1,425,690	0.0033	0.9967	99.65
4.5	364,388,658	2,120,003	0.0058	0.9942	99.32
5.5	336,176,882	3,389,199	0.0101	0.9899	98.74
6.5	325,737,843	3,906,974	0.0120	0.9880	97.75
7.5	315,742,552	1,322,136	0.0042	0.9958	96.58
8.5	294,288,835	965,083	0.0033	0.9967	96.17
9.5	279,589,970	2,860,744	0.0102	0.9898	95.86
10.5	266,764,334	10,677,901	0.0400	0.9600	94.88
11.5	254,049,219	984,057	0.0039	0.9961	91.08
12.5	250,818,635	2,202,402	0.0088	0.9912	90.73
13.5	243,718,042	4,721,194	0.0194	0.9806	89.93
14.5	237,849,070	2,023,414	0.0085	0.9915	88.19
15.5	232,660,240	645,917	0.0028	0.9972	87.44
16.5	221,923,224	526,754	0.0024	0.9976	87.19
17.5	219,535,827	1,816,276	0.0083	0.9917	86.99
18.5	215,769,315	584,694	0.0027	0.9973	86.27
19.5	210,495,885	3,057,782	0.0145	0.9855	86.03
20.5	201,945,819	3,466,184	0.0172	0.9828	84.78
21.5	187,948,621	1,202,182	0.0064	0.9936	83.33
22.5	170,849,486	1,186,971	0.0069	0.9931	82.80
23.5	167,952,911	1,743,786	0.0104	0.9896	82.22
24.5	163,397,057	2,759,190	0.0169	0.9831	81.37
25.5	157,029,072	2,758,312	0.0176	0.9824	79.99
26.5	150,122,915	718,455	0.0048	0.9952	78.59
27.5	163,923,153	593,396	0.0036	0.9964	78.21
28.5	147,971,302	575,415	0.0039	0.9961	77.93
29.5	51,587,116	165,461	0.0032	0.9968	77.63
30.5	37,374,798	8,825	0.0002	0.9998	77.38
31.5	21,733,847	260,971	0.0120	0.9880	77.36
32.5	12,381,598	83,493	0.0067	0.9933	76.43
33.5	11,078,669	11,166	0.0010	0.9990	75.91
34.5	10,362,525	71,436	0.0069	0.9931	75.84
35.5	9,168,110	92,332	0.0101	0.9899	75.31
36.5	8,656,330	20,277	0.0023	0.9977	74.56
37.5	8,846,483	29,004	0.0033	0.9967	74.38
38.5	8,434,636	20,352	0.0024	0.9976	74.14

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 129 of 317

DUKE ENERGY PROGRESS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1922-2016

EXPERIENCE BAND 1971-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	5,328,419	46,153	0.0087	0.9913	73.96
40.5	5,147,591	458,602	0.0891	0.9109	73.32
41.5	1,941,823		0.0000	1.0000	66.79
42.5	1,875,997	66	0.0000	1.0000	66.79
43.5	1,875,932	1,403	0.0007	0.9993	66.78
44.5	1,777,179	25,552	0.0144	0.9856	66.73
45.5	97		0.0000	1.0000	65.77
46.5	97		0.0000	1.0000	65.77
47.5	97		0.0000	1.0000	65.77
48.5	111		0.0000	1.0000	65.77
49.5	111		0.0000	1.0000	65.77
50.5	111		0.0000	1.0000	65.77
51.5	111		0.0000	1.0000	65.77
52.5	111	49	0.4427	0.5573	65.77
53.5	78,054		0.0000	1.0000	36.66
54.5	78,054		0.0000	1.0000	36.66
55.5	78,054		0.0000	1.0000	36.66
56.5	62	48	0.7776	0.2224	36.66
57.5	14		0.0000	1.0000	8.15
58.5	14		0.0000	1.0000	8.15
59.5	14		0.0000	1.0000	8.15
60.5	14		0.0000	1.0000	8.15
61.5	14		0.0000	1.0000	8.15
62.5	14		0.0000	1.0000	8.15
63.5	14		0.0000	1.0000	8.15
64.5	14		0.0000	1.0000	8.15
65.5	14		0.0000	1.0000	8.15
66.5	14		0.0000	1.0000	8.15
67.5	14		0.0000	1.0000	8.15
68.5	14		0.0000	1.0000	8.15
69.5	14		0.0000	1.0000	8.15
70.5	14		0.0000	1.0000	8.15
71.5	14		0.0000	1.0000	8.15
72.5	14		0.0000	1.0000	8.15
73.5	14		0.0000	1.0000	8.15
74.5	14		0.0000	1.0000	8.15
75.5	14		0.0000	1.0000	8.15
76.5	14		0.0000	1.0000	8.15
77.5	14		0.0000	1.0000	8.15
78.5	14		0.0000	1.0000	8.15

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 130 of 317

DUKE ENERGY PROGRESS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1922-2016			EXPERIENCE BAND 1971-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	14		0.0000	1.0000	8.15	
80.5	14	14	1.0000		8.15	
81.5						

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 131 of 317

DUKE ENERGY PROGRESS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1922-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	335,517,043		0.0000	1.0000	100.00
0.5	297,318,261	113,528	0.0004	0.9996	100.00
1.5	248,933,248	432,978	0.0017	0.9983	99.96
2.5	255,251,711	437,604	0.0017	0.9983	99.79
3.5	230,197,021	1,038,635	0.0045	0.9955	99.62
4.5	167,002,635	1,655,964	0.0099	0.9901	99.17
5.5	145,642,387	2,860,456	0.0196	0.9804	98.18
6.5	145,335,928	2,840,133	0.0195	0.9805	96.26
7.5	144,196,801	1,053,868	0.0073	0.9927	94.37
8.5	141,846,447	878,191	0.0062	0.9938	93.68
9.5	221,680,544	2,844,838	0.0128	0.9872	93.10
10.5	222,774,215	10,605,020	0.0476	0.9524	91.91
11.5	223,218,484	897,203	0.0040	0.9960	87.53
12.5	232,519,432	2,190,809	0.0094	0.9906	87.18
13.5	228,070,869	4,686,914	0.0206	0.9794	86.36
14.5	224,276,654	2,008,083	0.0090	0.9910	84.59
15.5	220,997,359	535,728	0.0024	0.9976	83.83
16.5	211,583,007	465,405	0.0022	0.9978	83.63
17.5	209,897,702	1,490,083	0.0071	0.9929	83.44
18.5	206,895,177	584,541	0.0028	0.9972	82.85
19.5	205,537,807	3,056,620	0.0149	0.9851	82.62
20.5	197,143,776	3,449,613	0.0175	0.9825	81.39
21.5	185,985,298	1,201,176	0.0065	0.9935	79.96
22.5	168,935,829	1,168,650	0.0069	0.9931	79.45
23.5	166,058,312	1,743,786	0.0105	0.9895	78.90
24.5	161,602,123	2,759,165	0.0171	0.9829	78.07
25.5	157,025,625	2,758,190	0.0176	0.9824	76.74
26.5	150,119,590	717,369	0.0048	0.9952	75.39
27.5	163,920,676	593,396	0.0036	0.9964	75.03
28.5	147,968,841	575,415	0.0039	0.9961	74.76
29.5	51,586,876	165,461	0.0032	0.9968	74.47
30.5	37,374,558	8,825	0.0002	0.9998	74.23
31.5	21,733,606	260,971	0.0120	0.9880	74.21
32.5	12,381,357	83,493	0.0067	0.9933	73.32
33.5	11,078,428	11,166	0.0010	0.9990	72.82
34.5	10,362,284	71,436	0.0069	0.9931	72.75
35.5	9,167,869	92,332	0.0101	0.9899	72.25
36.5	8,656,089	20,277	0.0023	0.9977	71.52
37.5	8,846,243	29,004	0.0033	0.9967	71.35
38.5	8,434,396	20,274	0.0024	0.9976	71.12

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 132 of 317

DUKE ENERGY PROGRESS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1922-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	5,328,257	46,153	0.0087	0.9913	70.95
40.5	5,147,428	458,602	0.0891	0.9109	70.33
41.5	1,941,660		0.0000	1.0000	64.07
42.5	1,875,835		0.0000	1.0000	64.07
43.5	1,875,835	1,403	0.0007	0.9993	64.07
44.5	1,777,082	25,552	0.0144	0.9856	64.02
45.5					63.10
46.5	49		0.0000		
47.5	49		0.0000		
48.5	49		0.0000		
49.5	49		0.0000		
50.5	97		0.0000		
51.5	97		0.0000		
52.5	97	49	0.5053		
53.5	78,040		0.0000		
54.5	78,040		0.0000		
55.5	78,040		0.0000		
56.5	48	48	1.0000		
57.5					
58.5					
59.5					
60.5					
61.5					
62.5					
63.5					
64.5					
65.5					
66.5					
67.5					
68.5					
69.5					
70.5					
71.5					
72.5					
73.5					
74.5	14		0.0000		
75.5	14		0.0000		
76.5	14		0.0000		
77.5	14		0.0000		
78.5	14		0.0000		

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 133 of 317

DUKE ENERGY PROGRESS

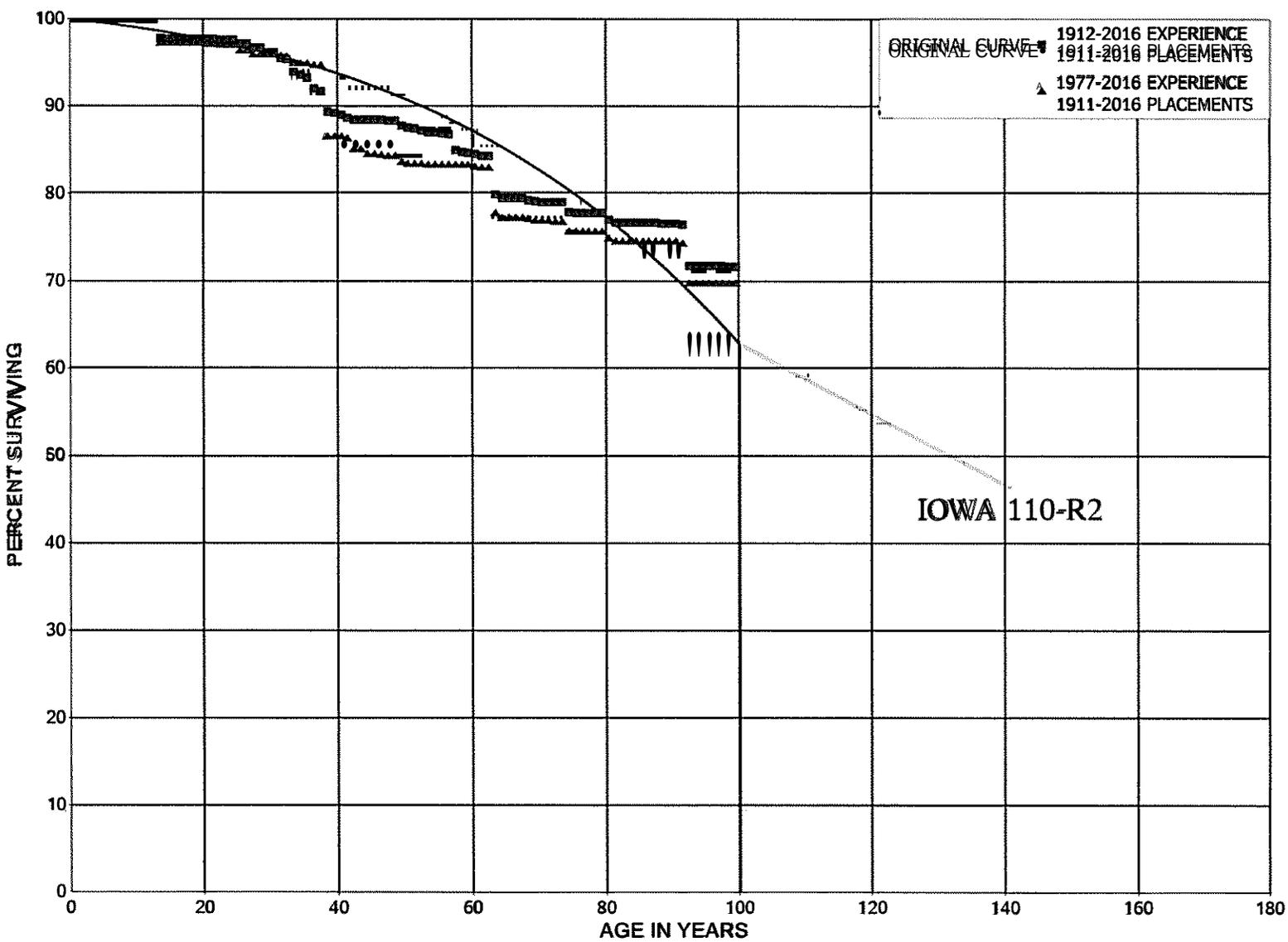
ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1922-2016		EXPERIENCE BAND 1997-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	14		0.0000		
80.5	14	14	1.0000		
81.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 134 of 317

DUKE ENERGY PROGRESS
ACCOUNT 331 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1911-2016

EXPERIENCE BAND 1912-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	12,242,184		0.0000	1.0000	100.00
0.5	12,146,167		0.0000	1.0000	100.00
1.5	11,950,452	6,707	0.0006	0.9994	100.00
2.5	11,967,284		0.0000	1.0000	99.94
3.5	11,495,432	74	0.0000	1.0000	99.94
4.5	11,305,840	2,813	0.0002	0.9998	99.94
5.5	11,300,494	12	0.0000	1.0000	99.92
6.5	11,247,133	466	0.0000	1.0000	99.92
7.5	11,555,868	227	0.0000	1.0000	99.91
8.5	10,979,097		0.0000	1.0000	99.91
9.5	10,978,871	8,129	0.0007	0.9993	99.91
10.5	10,963,735	498	0.0000	1.0000	99.84
11.5	10,812,701	70	0.0000	1.0000	99.83
12.5	10,812,631	233,506	0.0216	0.9784	99.83
13.5	10,454,992	844	0.0001	0.9999	97.68
14.5	10,456,502		0.0000	1.0000	97.67
15.5	10,124,226	373	0.0000	1.0000	97.67
16.5	9,940,064	1,861	0.0002	0.9998	97.67
17.5	8,523,576	789	0.0001	0.9999	97.65
18.5	7,800,267	0	0.0000	1.0000	97.64
19.5	6,986,143	4,622	0.0007	0.9993	97.64
20.5	5,096,805	0	0.0000	1.0000	97.57
21.5	5,068,920	3,210	0.0006	0.9994	97.57
22.5	4,664,326	2,286	0.0005	0.9995	97.51
23.5	4,656,169	142	0.0000	1.0000	97.46
24.5	4,582,291	16,855	0.0037	0.9963	97.46
25.5	4,563,400	2,396	0.0005	0.9995	97.10
26.5	4,407,123	17,590	0.0040	0.9960	97.05
27.5	4,389,533	632	0.0001	0.9999	96.66
28.5	4,388,901	24,986	0.0057	0.9943	96.65
29.5	4,249,686	2	0.0000	1.0000	96.10
30.5	4,199,845	30,406	0.0072	0.9928	96.10
31.5	2,867,872	2,054	0.0007	0.9993	95.40
32.5	2,863,967	44,590	0.0156	0.9844	95.34
33.5	2,622,584	8,840	0.0034	0.9966	93.85
34.5	2,600,019	9,218	0.0035	0.9965	93.54
35.5	2,587,994	34,741	0.0134	0.9866	93.20
36.5	2,530,013	9,409	0.0037	0.9963	91.95
37.5	2,484,869	61,957	0.0249	0.9751	91.61
38.5	2,340,828	3,730	0.0016	0.9984	89.33

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 136 of 317

DUKE ENERGY PROGRESS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1912-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	2,199,791	4,722	0.0021	0.9979	89.18	
40.5	2,194,914	8,238	0.0038	0.9962	88.99	
41.5	2,177,042	5,265	0.0024	0.9976	88.66	
42.5	2,112,105		0.0000	1.0000	88.44	
43.5	2,088,419	1,798	0.0009	0.9991	88.44	
44.5	2,058,670		0.0000	1.0000	88.37	
45.5	2,057,648	547	0.0003	0.9997	88.37	
46.5	2,046,003	1,230	0.0006	0.9994	88.34	
47.5	2,044,608	0	0.0000	1.0000	88.29	
48.5	2,041,442	12,552	0.0061	0.9939	88.29	
49.5	2,028,532	6,537	0.0032	0.9968	87.75	
50.5	2,020,954	1,319	0.0007	0.9993	87.47	
51.5	2,017,214	5,550	0.0028	0.9972	87.41	
52.5	2,011,664	6,137	0.0031	0.9969	87.17	
53.5	2,005,362	0	0.0000	1.0000	86.90	
54.5	2,004,524	462	0.0002	0.9998	86.90	
55.5	2,003,330	4,391	0.0022	0.9978	86.88	
56.5	1,847,350	35,889	0.0194	0.9806	86.69	
57.5	1,810,734	6,387	0.0035	0.9965	85.01	
58.5	1,796,510	1,726	0.0010	0.9990	84.71	
59.5	1,793,206	3,428	0.0019	0.9981	84.63	
60.5	1,788,189	3,178	0.0018	0.9982	84.46	
61.5	1,782,242	900	0.0005	0.9995	84.31	
62.5	1,781,342	94,679	0.0532	0.9468	84.27	
63.5	1,678,842	8,638	0.0051	0.9949	79.79	
64.5	1,669,705		0.0000	1.0000	79.38	
65.5	1,666,956		0.0000	1.0000	79.38	
66.5	1,655,695		0.0000	1.0000	79.38	
67.5	1,655,695	3,280	0.0020	0.9980	79.38	
68.5	1,649,594	3,689	0.0022	0.9978	79.23	
69.5	1,645,905	2,000	0.0012	0.9988	79.05	
70.5	1,642,635		0.0000	1.0000	78.95	
71.5	1,642,635	94	0.0001	0.9999	78.95	
72.5	1,642,541		0.0000	1.0000	78.95	
73.5	1,642,319	24,245	0.0148	0.9852	78.95	
74.5	1,612,336	215	0.0001	0.9999	77.78	
75.5	1,612,121		0.0000	1.0000	77.77	
76.5	1,612,121		0.0000	1.0000	77.77	
77.5	1,612,121		0.0000	1.0000	77.77	
78.5	1,612,121		0.0000	1.0000	77.77	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 137 of 317

DUKE ENERGY PROGRESS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1912-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	1,612,121	16,459	0.0102	0.9898	77.77	
80.5	1,595,662	7,727	0.0048	0.9952	76.98	
81.5	1,587,935	272	0.0002	0.9998	76.60	
82.5	1,587,662		0.0000	1.0000	76.59	
83.5	1,587,662		0.0000	1.0000	76.59	
84.5	1,587,662		0.0000	1.0000	76.59	
85.5	1,587,662		0.0000	1.0000	76.59	
86.5	967,144		0.0000	1.0000	76.59	
87.5	967,130	480	0.0005	0.9995	76.59	
88.5	295,917		0.0000	1.0000	76.55	
89.5	295,917		0.0000	1.0000	76.55	
90.5	295,917	741	0.0025	0.9975	76.55	
91.5	295,176	18,040	0.0611	0.9389	76.36	
92.5	277,136		0.0000	1.0000	71.69	
93.5	277,136		0.0000	1.0000	71.69	
94.5	277,136		0.0000	1.0000	71.69	
95.5	276,282		0.0000	1.0000	71.69	
96.5	276,282		0.0000	1.0000	71.69	
97.5	276,282	147	0.0005	0.9995	71.69	
98.5	276,135		0.0000	1.0000	71.66	
99.5	252,136		0.0000	1.0000	71.66	
100.5	252,136		0.0000	1.0000	71.66	
101.5	251,783		0.0000	1.0000	71.66	
102.5	251,783		0.0000	1.0000	71.66	
103.5	250,387		0.0000	1.0000	71.66	
104.5	6,298		0.0000	1.0000	71.66	
105.5					71.66	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 138 of 317

DUKE ENERGY PROGRESS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REIMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	9,815,306		0.0000	1.0000	100.00
0.5	9,705,575		0.0000	1.0000	100.00
1.5	9,519,793	6,707	0.0007	0.9993	100.00
2.5	9,606,905		0.0000	1.0000	99.93
3.5	9,151,496		0.0000	1.0000	99.93
4.5	8,989,928	2,180	0.0002	0.9998	99.93
5.5	8,986,243		0.0000	1.0000	99.91
6.5	8,932,966		0.0000	1.0000	99.91
7.5	9,242,587		0.0000	1.0000	99.91
8.5	8,669,330		0.0000	1.0000	99.91
9.5	8,669,462	8,129	0.0009	0.9991	99.91
10.5	8,656,263		0.0000	1.0000	99.81
11.5	8,511,033	70	0.0000	1.0000	99.81
12.5	8,518,014	233,506	0.0274	0.9726	99.81
13.5	8,160,539		0.0000	1.0000	97.07
14.5	8,168,998		0.0000	1.0000	97.07
15.5	7,839,117		0.0000	1.0000	97.07
16.5	7,810,429	1,861	0.0002	0.9998	97.07
17.5	6,450,727		0.0000	1.0000	97.05
18.5	5,736,045	0	0.0000	1.0000	97.05
19.5	4,923,499	3,332	0.0007	0.9993	97.05
20.5	3,037,040	0	0.0000	1.0000	96.99
21.5	3,011,924	3,210	0.0011	0.9989	96.99
22.5	2,611,191	2,286	0.0009	0.9991	96.88
23.5	2,610,856	142	0.0001	0.9999	96.80
24.5	2,537,553	16,408	0.0065	0.9935	96.79
25.5	2,521,858	760	0.0003	0.9997	96.17
26.5	2,379,217	9,509	0.0040	0.9960	96.14
27.5	2,369,709	254	0.0001	0.9999	95.75
28.5	2,372,276	1,105	0.0005	0.9995	95.74
29.5	2,260,118	2	0.0000	1.0000	95.70
30.5	2,211,548	738	0.0003	0.9997	95.70
31.5	909,242	1,654	0.0018	0.9982	95.67
32.5	905,845	7,051	0.0078	0.9922	95.49
33.5	705,327	0	0.0000	1.0000	94.75
34.5	700,518	119	0.0002	0.9998	94.75
35.5	700,493	1,664	0.0024	0.9976	94.73
36.5	675,683	325	0.0005	0.9995	94.51
37.5	639,623	54,459	0.0851	0.9149	94.46
38.5	504,057	0	0.0000	1.0000	86.42

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 139 of 317

DUKE ENERGY PROGRESS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	366,750	0	0.0000	1.0000	86.42
40.5	366,594	982	0.0027	0.9973	86.42
41.5	355,979	5,265	0.0148	0.9852	86.19
42.5	291,042		0.0000	1.0000	84.91
43.5	267,356	1,798	0.0067	0.9933	84.91
44.5	237,607		0.0000	1.0000	84.34
45.5	236,585	283	0.0012	0.9988	84.34
46.5	992,512	1,230	0.0012	0.9988	84.24
47.5	991,131	0	0.0000	1.0000	84.14
48.5	1,667,033	12,552	0.0075	0.9925	84.14
49.5	1,654,124	4,109	0.0025	0.9975	83.50
50.5	1,648,974	77	0.0000	1.0000	83.30
51.5	1,646,475	376	0.0002	0.9998	83.29
52.5	1,646,099	2,901	0.0018	0.9982	83.27
53.5	1,643,033	0	0.0000	1.0000	83.13
54.5	1,642,195		0.0000	1.0000	83.13
55.5	1,642,317		0.0000	1.0000	83.13
56.5	1,490,728		0.0000	1.0000	83.13
57.5	1,490,001		0.0000	1.0000	83.13
58.5	1,482,164	109	0.0001	0.9999	83.13
59.5	1,504,476	2,331	0.0015	0.9985	83.12
60.5	1,500,556	3,178	0.0021	0.9979	82.99
61.5	1,494,962		0.0000	1.0000	82.82
62.5	1,495,109	94,679	0.0633	0.9367	82.82
63.5	1,394,005	8,638	0.0062	0.9938	77.57
64.5	1,655,651		0.0000	1.0000	77.09
65.5	1,666,956		0.0000	1.0000	77.09
66.5	1,655,695		0.0000	1.0000	77.09
67.5	1,655,695	3,280	0.0020	0.9980	77.09
68.5	1,649,594	3,689	0.0022	0.9978	76.94
69.5	1,645,905	2,000	0.0012	0.9988	76.77
70.5	1,642,635		0.0000	1.0000	76.67
71.5	1,642,635	94	0.0001	0.9999	76.67
72.5	1,642,541		0.0000	1.0000	76.67
73.5	1,642,319	24,245	0.0148	0.9852	76.67
74.5	1,612,336	215	0.0001	0.9999	75.54
75.5	1,612,121		0.0000	1.0000	75.53
76.5	1,612,121		0.0000	1.0000	75.53
77.5	1,612,121		0.0000	1.0000	75.53
78.5	1,612,121		0.0000	1.0000	75.53

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 140 of 317

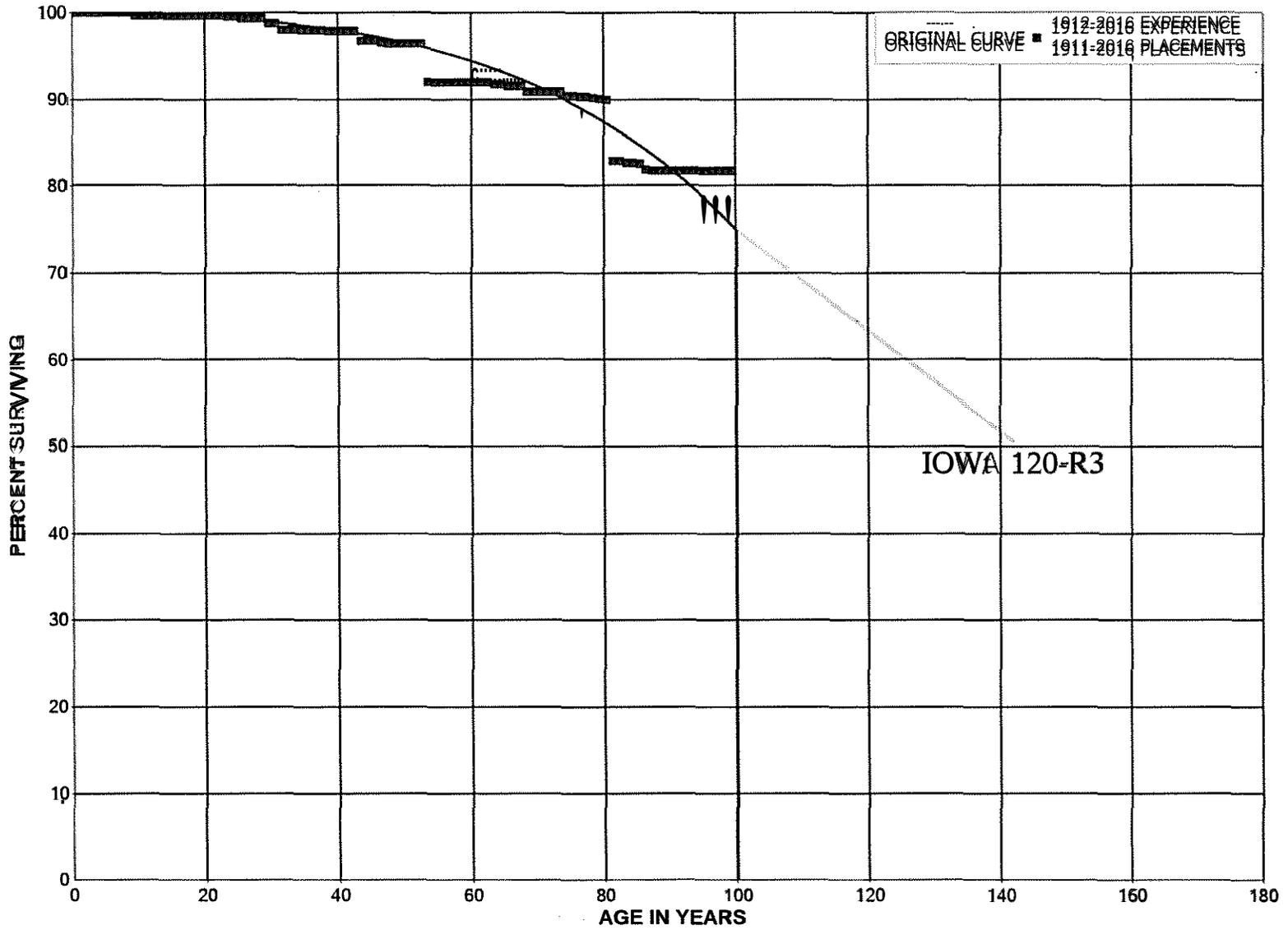
DUKE ENERGY PROGRESS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016		EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,612,121	16,459	0.0102	0.9898	75.53
80.5	1,595,662	7,727	0.0048	0.9952	74.76
81.5	1,587,935	272	0.0002	0.9998	74.39
82.5	1,587,662		0.0000	1.0000	74.38
83.5	1,587,662		0.0000	1.0000	74.38
84.5	1,587,662		0.0000	1.0000	74.38
85.5	1,587,662		0.0000	1.0000	74.38
86.5	967,144		0.0000	1.0000	74.38
87.5	967,130	480	0.0005	0.9995	74.38
88.5	295,917		0.0000	1.0000	74.34
89.5	295,917		0.0000	1.0000	74.34
90.5	295,917	741	0.0025	0.9975	74.34
91.5	295,176	18,040	0.0611	0.9389	74.16
92.5	277,136		0.0000	1.0000	69.63
93.5	277,136		0.0000	1.0000	69.63
94.5	277,136		0.0000	1.0000	69.63
95.5	276,282		0.0000	1.0000	69.63
96.5	276,282		0.0000	1.0000	69.63
97.5	276,282	147	0.0005	0.9995	69.63
98.5	276,135		0.0000	1.0000	69.59
99.5	252,136		0.0000	1.0000	69.59
100.5	252,136		0.0000	1.0000	69.59
101.5	251,783		0.0000	1.0000	69.59
102.5	251,783		0.0000	1.0000	69.59
103.5	250,387		0.0000	1.0000	69.59
104.5	6,298		0.0000	1.0000	69.59
105.5					69.59

DUKE ENERGY PROGRESS
ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1912-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	55,228,027	2,253	0.0000	1.0000	100.00
0.5	53,913,662		0.0000	1.0000	100.00
1.5	53,409,284		0.0000	1.0000	100.00
2.5	53,260,957		0.0000	1.0000	100.00
3.5	51,806,457		0.0000	1.0000	100.00
4.5	51,807,882		0.0000	1.0000	100.00
5.5	50,957,322		0.0000	1.0000	100.00
6.5	50,137,953	6,888	0.0001	0.9999	100.00
7.5	47,027,585	3,584	0.0001	0.9999	99.98
8.5	46,860,214	162,457	0.0035	0.9965	99.97
9.5	46,697,757	23,040	0.0005	0.9995	99.63
10.5	46,674,717		0.0000	1.0000	99.58
11.5	46,572,191	216	0.0000	1.0000	99.58
12.5	46,571,975		0.0000	1.0000	99.58
13.5	46,571,937		0.0000	1.0000	99.58
14.5	39,212,733		0.0000	1.0000	99.58
15.5	31,571,697		0.0000	1.0000	99.58
16.5	31,526,260		0.0000	1.0000	99.58
17.5	30,956,503	317	0.0000	1.0000	99.58
18.5	30,357,522		0.0000	1.0000	99.58
19.5	28,363,133		0.0000	1.0000	99.58
20.5	28,014,257	24	0.0000	1.0000	99.58
21.5	25,721,317	110	0.0000	1.0000	99.58
22.5	25,479,500	15,910	0.0006	0.9994	99.58
23.5	23,965,967		0.0000	1.0000	99.51
24.5	23,611,798	50,314	0.0021	0.9979	99.51
25.5	23,561,484	5,574	0.0002	0.9998	99.30
26.5	22,316,856	7,851	0.0004	0.9996	99.28
27.5	22,292,947		0.0000	1.0000	99.24
28.5	22,285,757	123,442	0.0055	0.9945	99.24
29.5	22,149,591		0.0000	1.0000	98.69
30.5	21,940,656	162,922	0.0074	0.9926	98.69
31.5	18,704,250		0.0000	1.0000	97.96
32.5	18,699,799	4,245	0.0002	0.9998	97.96
33.5	18,228,272		0.0000	1.0000	97.94
34.5	17,959,858		0.0000	1.0000	97.94
35.5	17,959,858	1,000	0.0001	0.9999	97.94
36.5	17,958,858		0.0000	1.0000	97.93
37.5	17,958,858	18,343	0.0010	0.9990	97.93
38.5	17,931,466	1,905	0.0001	0.9999	97.83

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 143 of 317

DUKE ENERGY PROGRESS

ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1912-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	17,618,947	2,677	0.0002	0.9998	97.82	
40.5	17,616,270		0.0000	1.0000	97.81	
41.5	17,615,685		0.0000	1.0000	97.81	
42.5	17,615,685	202,342	0.0115	0.9885	97.81	
43.5	17,413,343		0.0000	1.0000	96.69	
44.5	17,413,343		0.0000	1.0000	96.69	
45.5	17,413,343	41,928	0.0024	0.9976	96.69	
46.5	17,332,322	806	0.0000	1.0000	96.45	
47.5	17,331,516		0.0000	1.0000	96.45	
48.5	17,331,066		0.0000	1.0000	96.45	
49.5	17,331,066		0.0000	1.0000	96.45	
50.5	17,331,066		0.0000	1.0000	96.45	
51.5	17,328,927	2,241	0.0001	0.9999	96.45	
52.5	17,326,686	809,115	0.0467	0.9533	96.44	
53.5	16,517,572		0.0000	1.0000	91.93	
54.5	16,517,572		0.0000	1.0000	91.93	
55.5	16,515,860		0.0000	1.0000	91.93	
56.5	16,340,925		0.0000	1.0000	91.93	
57.5	16,338,605		0.0000	1.0000	91.93	
58.5	16,338,605		0.0000	1.0000	91.93	
59.5	16,338,605		0.0000	1.0000	91.93	
60.5	16,338,605		0.0000	1.0000	91.93	
61.5	16,338,605		0.0000	1.0000	91.93	
62.5	16,338,605	45,119	0.0028	0.9972	91.93	
63.5	16,293,486		0.0000	1.0000	91.68	
64.5	16,293,486	25,844	0.0016	0.9984	91.68	
65.5	16,267,642		0.0000	1.0000	91.53	
66.5	16,267,642		0.0000	1.0000	91.53	
67.5	16,267,642	129,145	0.0079	0.9921	91.53	
68.5	16,138,497		0.0000	1.0000	90.81	
69.5	16,138,497		0.0000	1.0000	90.81	
70.5	16,138,497	1,275	0.0001	0.9999	90.81	
71.5	16,137,221	1,014	0.0001	0.9999	90.80	
72.5	16,135,867		0.0000	1.0000	90.79	
73.5	16,135,867	64,021	0.0040	0.9960	90.79	
74.5	16,070,274		0.0000	1.0000	90.43	
75.5	16,069,238	27,158	0.0017	0.9983	90.43	
76.5	16,042,080	6,948	0.0004	0.9996	90.28	
77.5	16,035,133	20,263	0.0013	0.9987	90.24	
78.5	16,014,870	1,887	0.0001	0.9999	90.13	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 144 of 317

DUKE ENERGY PROGRESS

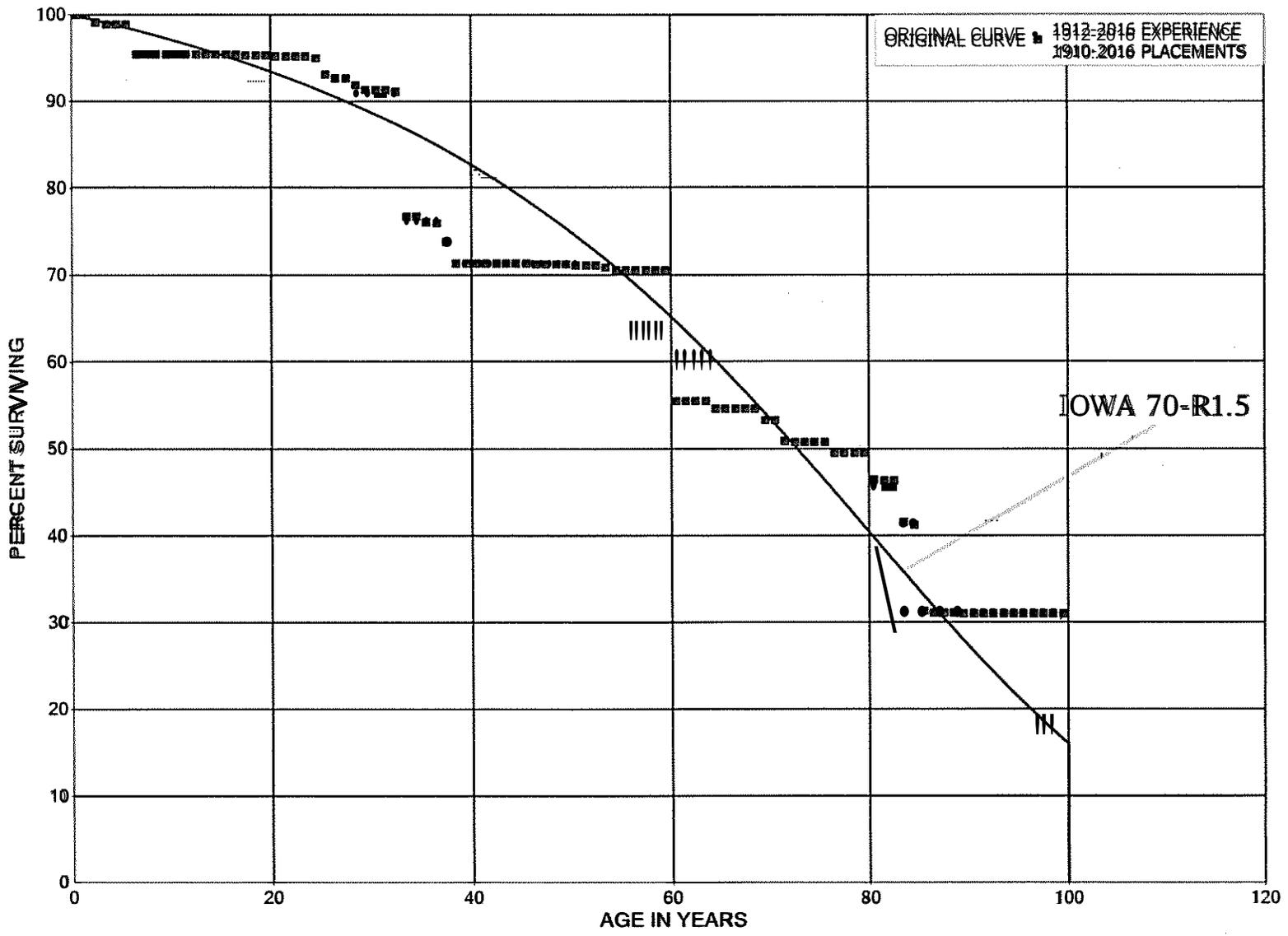
ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1912-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	16,012,983	26,458	0.0017	0.9983	90.12
80.5	15,986,525	1,276,307	0.0798	0.9202	89.97
81.5	14,710,218		0.0000	1.0000	82.78
82.5	14,710,218	33,840	0.0023	0.9977	82.78
83.5	14,676,378		0.0000	1.0000	82.59
84.5	14,625,820	6,360	0.0004	0.9996	82.59
85.5	14,619,460	130,292	0.0089	0.9911	82.56
86.5	5,464,778	4,625	0.0008	0.9992	81.82
87.5	5,460,153	3,747	0.0007	0.9993	81.75
88.5	1,977,178		0.0000	1.0000	81.70
89.5	1,977,178		0.0000	1.0000	81.70
90.5	1,977,178	1	0.0000	1.0000	81.70
91.5	1,977,177	340	0.0002	0.9998	81.70
92.5	1,966,361		0.0000	1.0000	81.68
93.5	1,957,111		0.0000	1.0000	81.68
94.5	1,957,111		0.0000	1.0000	81.68
95.5	1,957,111		0.0000	1.0000	81.68
96.5	1,957,111		0.0000	1.0000	81.68
97.5	1,957,111		0.0000	1.0000	81.68
98.5	1,957,111		0.0000	1.0000	81.68
99.5	1,943,661		0.0000	1.0000	81.68
100.5	1,943,661		0.0000	1.0000	81.68
101.5	1,943,451		0.0000	1.0000	81.68
102.5	1,943,451		0.0000	1.0000	81.68
103.5	1,942,637		0.0000	1.0000	81.68
104.5	45,055		0.0000	1.0000	81.68
105.5					81.68

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 145 of 317

DUKE ENERGY PROGRESS
ACCOUNT 333 WATERWHEELS, TURBINES AND GENERATORS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

V1283

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 333 WATERWHEELS, TURBINES AND GENERATORS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1910-2016

EXPERIENCE BAND 1912-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	33,514,664	6,919	0.0002	0.9998	100.00
0.5	33,463,824		0.0000	1.0000	99.98
1.5	33,755,891	296,203	0.0088	0.9912	99.98
2.5	33,334,373	87,285	0.0026	0.9974	99.10
3.5	28,181,192		0.0000	1.0000	98.84
4.5	22,764,667		0.0000	1.0000	98.84
5.5	18,425,147	650,642	0.0353	0.9647	98.84
6.5	17,848,063		0.0000	1.0000	95.35
7.5	18,880,224	1,815	0.0001	0.9999	95.35
8.5	18,878,409		0.0000	1.0000	95.34
9.5	18,878,409		0.0000	1.0000	95.34
10.5	18,827,411		0.0000	1.0000	95.34
11.5	18,816,916		0.0000	1.0000	95.34
12.5	18,816,916		0.0000	1.0000	95.34
13.5	18,816,916		0.0000	1.0000	95.34
14.5	18,509,237		0.0000	1.0000	95.34
15.5	18,509,237	326	0.0000	1.0000	95.34
16.5	18,367,962	11,966	0.0007	0.9993	95.34
17.5	18,348,170	1,081	0.0001	0.9999	95.28
18.5	18,338,192		0.0000	1.0000	95.27
19.5	17,993,134	16,664	0.0009	0.9991	95.27
20.5	17,975,033	561	0.0000	1.0000	95.19
21.5	17,974,472		0.0000	1.0000	95.18
22.5	17,567,722	1,042	0.0001	0.9999	95.18
23.5	16,602,279	32,098	0.0019	0.9981	95.18
24.5	14,506,522	293,084	0.0202	0.9798	94.99
25.5	14,174,121	74,590	0.0053	0.9947	93.07
26.5	13,568,331	1,051	0.0001	0.9999	92.58
27.5	13,322,916	111,864	0.0084	0.9916	92.58
28.5	13,211,046	69,957	0.0053	0.9947	91.80
29.5	11,946,578	779	0.0001	0.9999	91.31
30.5	11,626,649	6,574	0.0006	0.9994	91.31
31.5	5,739,213	13,558	0.0024	0.9976	91.26
32.5	4,929,645	775,156	0.1572	0.8428	91.04
33.5	4,154,489	157	0.0000	1.0000	76.72
34.5	4,140,605	37,273	0.0090	0.9910	76.72
35.5	4,024,496	2,626	0.0007	0.9993	76.03
36.5	3,980,174	109,611	0.0275	0.9725	75.98
37.5	3,854,604	138,185	0.0358	0.9642	73.89
38.5	3,716,419	438	0.0001	0.9999	71.24

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 147 of 317

DUKE ENERGY PROGRESS

ACCOUNT 333 WATERWHEELS, TURBINES AND GENERATORS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1910-2016			EXPERIENCE BAND 1912-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,715,792		0.0000	1.0000	71.23
40.5	3,715,792		0.0000	1.0000	71.23
41.5	3,715,792	0	0.0000	1.0000	71.23
42.5	3,714,918		0.0000	1.0000	71.23
43.5	3,714,918	0	0.0000	1.0000	71.23
44.5	3,714,918		0.0000	1.0000	71.23
45.5	3,714,918	643	0.0002	0.9998	71.23
46.5	3,704,394	1,456	0.0004	0.9996	71.22
47.5	3,698,128	87	0.0000	1.0000	71.19
48.5	3,698,042	2,603	0.0007	0.9993	71.19
49.5	3,682,715	1,760	0.0005	0.9995	71.14
50.5	3,680,955		0.0000	1.0000	71.11
51.5	3,680,928	1,245	0.0003	0.9997	71.11
52.5	3,667,438	12,399	0.0034	0.9966	71.08
53.5	3,655,039	14,827	0.0041	0.9959	70.84
54.5	3,619,498		0.0000	1.0000	70.55
55.5	3,619,498	4,462	0.0012	0.9988	70.55
56.5	2,694,243		0.0000	1.0000	70.47
57.5	2,694,243	236	0.0001	0.9999	70.47
58.5	2,694,007		0.0000	1.0000	70.46
59.5	2,694,007	572,720	0.2126	0.7874	70.46
60.5	2,121,287		0.0000	1.0000	55.48
61.5	2,121,287		0.0000	1.0000	55.48
62.5	2,121,287		0.0000	1.0000	55.48
63.5	2,121,287	31,991	0.0151	0.9849	55.48
64.5	2,089,296	684	0.0003	0.9997	54.64
65.5	2,088,612		0.0000	1.0000	54.63
66.5	2,084,219		0.0000	1.0000	54.63
67.5	2,084,219	1,140	0.0005	0.9995	54.63
68.5	2,083,079	48,341	0.0232	0.9768	54.60
69.5	2,034,737	175	0.0001	0.9999	53.33
70.5	2,034,562	96,683	0.0475	0.9525	53.33
71.5	1,937,879	3,792	0.0020	0.9980	50.79
72.5	1,934,088		0.0000	1.0000	50.69
73.5	1,934,088		0.0000	1.0000	50.69
74.5	1,934,088		0.0000	1.0000	50.69
75.5	1,934,088	43,598	0.0225	0.9775	50.69
76.5	1,890,490		0.0000	1.0000	49.55
77.5	1,890,490		0.0000	1.0000	49.55
78.5	1,890,490		0.0000	1.0000	49.55

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 148 of 317

DUKE ENERGY PROGRESS

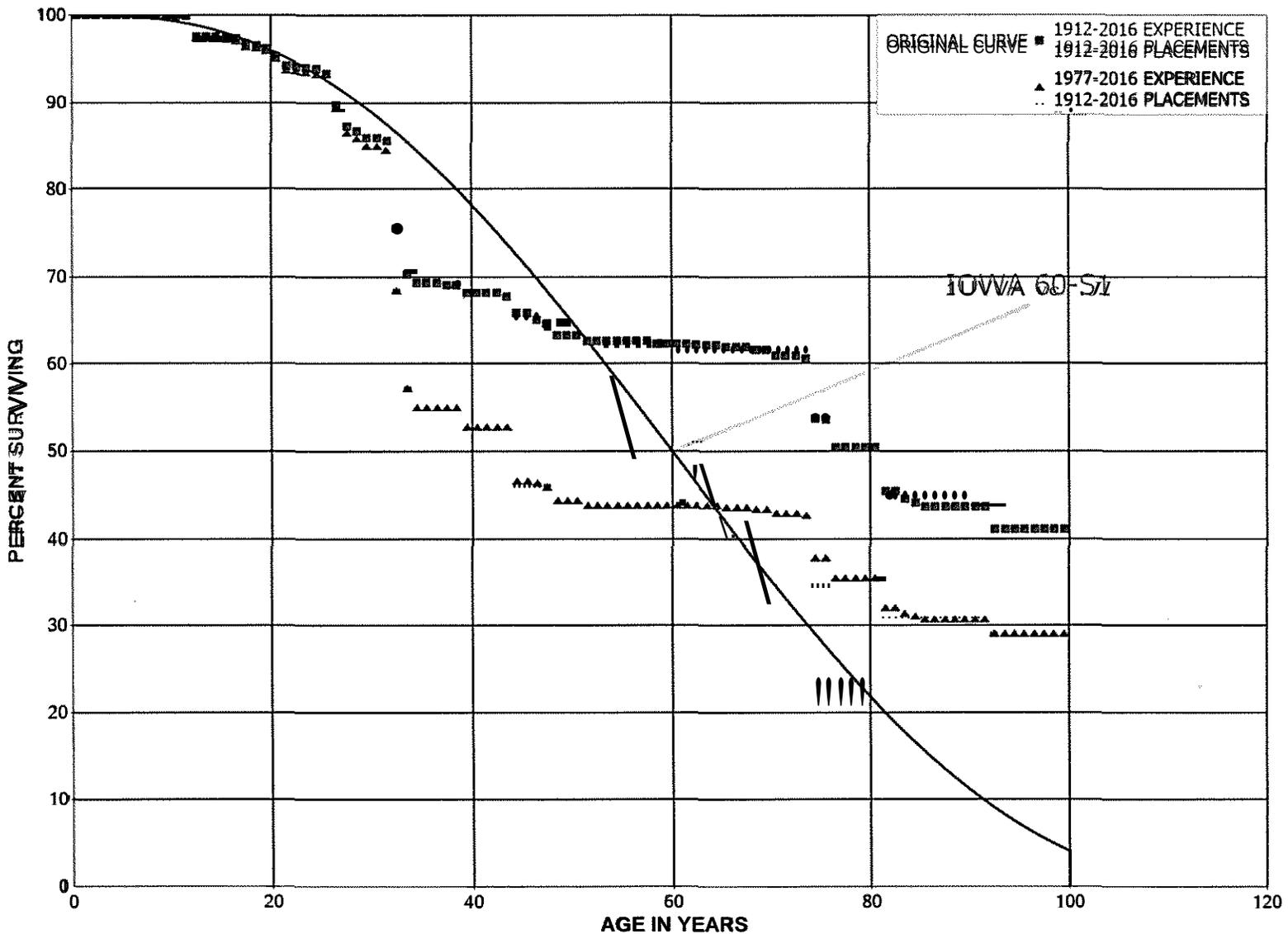
ACCOUNT 333 WATERWHEELS, TURBINES AND GENERATORS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1910-2016			EXPERIENCE BAND 1912-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,890,490	121,054	0.0640	0.9360	49.55
80.5	1,769,436	1,851	0.0010	0.9990	46.38
81.5	1,767,585	3,698	0.0021	0.9979	46.33
82.5	1,763,887	180,820	0.1025	0.8975	46.23
83.5	1,583,067	13,100	0.0083	0.9917	41.49
84.5	1,569,967	374,682	0.2387	0.7613	41.15
85.5	1,190,209	10,882	0.0091	0.9909	31.33
86.5	1,001,819		0.0000	1.0000	31.04
87.5	1,001,819	911	0.0009	0.9991	31.04
88.5	568,146	958	0.0017	0.9983	31.01
89.5	532,298	193	0.0004	0.9996	30.96
90.5	532,105		0.0000	1.0000	30.95
91.5	532,105		0.0000	1.0000	30.95
92.5	532,105		0.0000	1.0000	30.95
93.5	499,346		0.0000	1.0000	30.95
94.5	491,109		0.0000	1.0000	30.95
95.5	491,109		0.0000	1.0000	30.95
96.5	491,109		0.0000	1.0000	30.95
97.5	491,109		0.0000	1.0000	30.95
98.5	478,793		0.0000	1.0000	30.95
99.5	478,793		0.0000	1.0000	30.95
100.5	478,793	111,372	0.2326	0.7674	30.95
101.5	367,421	3,082	0.0084	0.9916	23.75
102.5	364,339	86,632	0.2378	0.7622	23.55
103.5	277,707		0.0000	1.0000	17.95
104.5	277,707		0.0000	1.0000	17.95
105.5	277,707		0.0000	1.0000	17.95
106.5					17.95

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 149 of 317

DUKE ENERGY PROGRESS
ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

WI-87

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1912-2016

EXPERIENCE BAND 1912-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REIMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	25,650,082		0.0000	1.0000	100.00
0.5	7,617,727		0.0000	1.0000	100.00
1.5	7,750,215		0.0000	1.0000	100.00
2.5	7,513,615		0.0000	1.0000	100.00
3.5	7,579,582		0.0000	1.0000	100.00
4.5	7,221,616		0.0000	1.0000	100.00
5.5	5,926,922		0.0000	1.0000	100.00
6.5	5,651,959		0.0000	1.0000	100.00
7.5	6,344,053	10,690	0.0017	0.9983	100.00
8.5	6,333,362	39	0.0000	1.0000	99.83
9.5	6,342,787		0.0000	1.0000	99.83
10.5	6,334,961		0.0000	1.0000	99.83
11.5	6,334,961	149,219	0.0236	0.9764	99.83
12.5	6,104,414		0.0000	1.0000	97.48
13.5	5,332,814		0.0000	1.0000	97.48
14.5	5,332,814	2,179	0.0004	0.9996	97.48
15.5	5,272,514	10,507	0.0020	0.9980	97.44
16.5	5,232,150	30,511	0.0058	0.9942	97.25
17.5	5,192,791	7,068	0.0014	0.9986	96.68
18.5	5,185,723	21,873	0.0042	0.9958	96.55
19.5	5,163,642	43,418	0.0084	0.9916	96.14
20.5	5,114,301	62,060	0.0121	0.9879	95.33
21.5	4,688,564	7,302	0.0016	0.9984	94.17
22.5	4,518,285	2,052	0.0005	0.9995	94.03
23.5	4,512,354	9,640	0.0021	0.9979	93.98
24.5	3,810,252	21,203	0.0056	0.9944	93.78
25.5	3,775,644	141,131	0.0374	0.9626	93.26
26.5	3,601,876	98,532	0.0274	0.9726	89.78
27.5	3,503,059	22,376	0.0064	0.9936	87.32
28.5	3,162,255	29,940	0.0095	0.9905	86.76
29.5	3,019,532	502	0.0002	0.9998	85.94
30.5	2,991,142	12,306	0.0041	0.9959	85.93
31.5	1,176,069	138,195	0.1175	0.8825	85.57
32.5	778,119	54,355	0.0699	0.9301	75.52
33.5	690,089	9,827	0.0142	0.9858	70.24
34.5	671,640		0.0000	1.0000	69.24
35.5	651,743		0.0000	1.0000	69.24
36.5	649,365	1,775	0.0027	0.9973	69.24
37.5	639,097		0.0000	1.0000	69.05
38.5	639,097	7,831	0.0123	0.9877	69.05

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 151 of 317

DUKE ENERGY PROGRESS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1912-2016			EXPERIENCE BAND 1912-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	631,266	217	0.0003	0.9997	68.21	
40.5	631,048		0.0000	1.0000	68.18	
41.5	631,004		0.0000	1.0000	68.18	
42.5	579,562	3,447	0.0059	0.9941	68.18	
43.5	576,115	16,096	0.0279	0.9721	67.78	
44.5	544,356		0.0000	1.0000	65.88	
45.5	544,356	6,816	0.0125	0.9875	65.88	
46.5	537,040	3,496	0.0065	0.9935	65.06	
47.5	533,544	10,760	0.0202	0.9798	64.64	
48.5	522,784	238	0.0005	0.9995	63.33	
49.5	522,193		0.0000	1.0000	63.30	
50.5	519,407	5,591	0.0108	0.9892	63.30	
51.5	513,816	56	0.0001	0.9999	62.62	
52.5	503,472		0.0000	1.0000	62.62	
53.5	503,472		0.0000	1.0000	62.62	
54.5	503,472	156	0.0003	0.9997	62.62	
55.5	493,181		0.0000	1.0000	62.60	
56.5	440,314		0.0000	1.0000	62.60	
57.5	439,566	2,077	0.0047	0.9953	62.60	
58.5	437,489		0.0000	1.0000	62.30	
59.5	437,489		0.0000	1.0000	62.30	
60.5	437,489		0.0000	1.0000	62.30	
61.5	437,489	702	0.0016	0.9984	62.30	
62.5	436,787		0.0000	1.0000	62.20	
63.5	436,787	98	0.0002	0.9998	62.20	
64.5	436,689	1,903	0.0044	0.9956	62.19	
65.5	432,965	86	0.0002	0.9998	61.92	
66.5	432,879		0.0000	1.0000	61.90	
67.5	432,879	1,894	0.0044	0.9956	61.90	
68.5	430,985		0.0000	1.0000	61.63	
69.5	430,985	4,795	0.0111	0.9889	61.63	
70.5	425,385		0.0000	1.0000	60.95	
71.5	425,385		0.0000	1.0000	60.95	
72.5	424,625	2,422	0.0057	0.9943	60.95	
73.5	421,981	47,679	0.1130	0.8870	60.60	
74.5	374,302	701	0.0019	0.9981	53.75	
75.5	373,601	22,524	0.0603	0.9397	53.65	
76.5	351,077		0.0000	1.0000	50.42	
77.5	351,077		0.0000	1.0000	50.42	
78.5	349,339		0.0000	1.0000	50.42	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 152 of 317

DUKE ENERGY PROGRESS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1912-2016		EXPERIENCE BAND 1912-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	346,640		0.0000	1.0000	50.42
80.5	346,640	34,767	0.1003	0.8997	50.42
81.5	311,873		0.0000	1.0000	45.36
82.5	311,873	5,819	0.0187	0.9813	45.36
83.5	306,054	3,271	0.0107	0.9893	44.51
84.5	302,782	3,271	0.0108	0.9892	44.04
85.5	299,511		0.0000	1.0000	43.56
86.5	137,602		0.0000	1.0000	43.56
87.5	136,642		0.0000	1.0000	43.56
88.5	22,607		0.0000	1.0000	43.56
89.5	22,607		0.0000	1.0000	43.56
90.5	22,607		0.0000	1.0000	43.56
91.5	21,963	1,254	0.0571	0.9429	43.56
92.5	20,708		0.0000	1.0000	41.07
93.5	20,708		0.0000	1.0000	41.07
94.5	20,708		0.0000	1.0000	41.07
95.5	19,694		0.0000	1.0000	41.07
96.5	19,694		0.0000	1.0000	41.07
97.5	19,694		0.0000	1.0000	41.07
98.5	19,694		0.0000	1.0000	41.07
99.5	19,210		0.0000	1.0000	41.07
100.5	19,210		0.0000	1.0000	41.07
101.5	19,210		0.0000	1.0000	41.07
102.5	19,001		0.0000	1.0000	41.07
103.5	16,729		0.0000	1.0000	41.07
104.5					41.07

DUKE ENERGY PROGRESS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1912-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	24,477,499		0.0000	1.0000	100.00
0.5	6,449,104		0.0000	1.0000	100.00
1.5	6,585,348		0.0000	1.0000	100.00
2.5	6,455,064		0.0000	1.0000	100.00
3.5	6,523,420		0.0000	1.0000	100.00
4.5	6,196,778		0.0000	1.0000	100.00
5.5	4,903,407		0.0000	1.0000	100.00
6.5	4,633,030		0.0000	1.0000	100.00
7.5	5,325,124	7,015	0.0013	0.9987	100.00
8.5	5,318,871	39	0.0000	1.0000	99.87
9.5	5,333,327		0.0000	1.0000	99.87
10.5	5,454,052		0.0000	1.0000	99.87
11.5	5,454,946	148,253	0.0272	0.9728	99.87
12.5	5,269,219		0.0000	1.0000	97.15
13.5	4,498,142		0.0000	1.0000	97.15
14.5	4,498,142	2,179	0.0005	0.9995	97.15
15.5	4,454,151	10,507	0.0024	0.9976	97.11
16.5	4,494,069	30,511	0.0068	0.9932	96.88
17.5	4,711,200	5,556	0.0012	0.9988	96.22
18.5	4,705,644	20,518	0.0044	0.9956	96.11
19.5	4,684,918	43,418	0.0093	0.9907	95.69
20.5	4,639,073	62,060	0.0134	0.9866	94.80
21.5	4,213,337	7,302	0.0017	0.9983	93.53
22.5	4,043,057	2,052	0.0005	0.9995	93.37
23.5	4,037,126	9,640	0.0024	0.9976	93.32
24.5	3,335,025	1,911	0.0006	0.9994	93.10
25.5	3,321,529	138,056	0.0416	0.9584	93.05
26.5	3,150,836	98,532	0.0313	0.9687	89.18
27.5	3,052,118	22,376	0.0073	0.9927	86.39
28.5	2,711,314	29,940	0.0110	0.9890	85.76
29.5	2,568,591	502	0.0002	0.9998	84.81
30.5	2,541,007	12,224	0.0048	0.9952	84.79
31.5	726,102	138,195	0.1903	0.8097	84.39
32.5	329,340	54,060	0.1641	0.8359	68.32
33.5	241,827	9,827	0.0406	0.9594	57.11
34.5	223,378		0.0000	1.0000	54.79
35.5	203,482		0.0000	1.0000	54.79
36.5	201,104		0.0000	1.0000	54.79
37.5	192,611		0.0000	1.0000	54.79
38.5	194,348	7,831	0.0403	0.9597	54.79

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 154 of 317

DUKE ENERGY PROGRESS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1912-2016			EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	189,217	7	0.0000	1.0000	52.58	
40.5	189,209		0.0000	1.0000	52.58	
41.5	189,165		0.0000	1.0000	52.58	
42.5	137,722		0.0000	1.0000	52.58	
43.5	137,722	16,096	0.1169	0.8831	52.58	
44.5	105,964		0.0000	1.0000	46.43	
45.5	105,964	471	0.0044	0.9956	46.43	
46.5	317,504	3,496	0.0110	0.9890	46.23	
47.5	315,669	10,760	0.0341	0.9659	45.72	
48.5	455,732	238	0.0005	0.9995	44.16	
49.5	455,141		0.0000	1.0000	44.14	
50.5	452,355	5,591	0.0124	0.9876	44.14	
51.5	447,408		0.0000	1.0000	43.59	
52.5	437,119		0.0000	1.0000	43.59	
53.5	438,456		0.0000	1.0000	43.59	
54.5	438,456		0.0000	1.0000	43.59	
55.5	429,336		0.0000	1.0000	43.59	
56.5	376,469		0.0000	1.0000	43.59	
57.5	375,721		0.0000	1.0000	43.59	
58.5	375,721		0.0000	1.0000	43.59	
59.5	376,205		0.0000	1.0000	43.59	
60.5	376,205		0.0000	1.0000	43.59	
61.5	376,205	1	0.0000	1.0000	43.59	
62.5	376,413		0.0000	1.0000	43.59	
63.5	378,685	98	0.0003	0.9997	43.59	
64.5	436,689	1,903	0.0044	0.9956	43.58	
65.5	432,965	86	0.0002	0.9998	43.39	
66.5	432,879		0.0000	1.0000	43.38	
67.5	432,879	1,894	0.0044	0.9956	43.38	
68.5	430,985		0.0000	1.0000	43.19	
69.5	430,985	4,795	0.0111	0.9889	43.19	
70.5	425,385		0.0000	1.0000	42.71	
71.5	425,385		0.0000	1.0000	42.71	
72.5	424,625	2,422	0.0057	0.9943	42.71	
73.5	421,981	47,679	0.1130	0.8870	42.47	
74.5	374,302	701	0.0019	0.9981	37.67	
75.5	373,601	22,524	0.0603	0.9397	37.60	
76.5	351,077		0.0000	1.0000	35.33	
77.5	351,077		0.0000	1.0000	35.33	
78.5	349,339		0.0000	1.0000	35.33	

DUKE ENERGY PROGRESS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1912-2016		EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	346,640		0.0000	1.0000	35.33
80.5	346,640	34,767	0.1003	0.8997	35.33
81.5	311,873		0.0000	1.0000	31.79
82.5	311,873	5,819	0.0187	0.9813	31.79
83.5	306,054	3,271	0.0107	0.9893	31.20
84.5	302,782	3,271	0.0108	0.9892	30.86
85.5	299,511		0.0000	1.0000	30.53
86.5	137,602		0.0000	1.0000	30.53
87.5	136,642		0.0000	1.0000	30.53
88.5	22,607		0.0000	1.0000	30.53
89.5	22,607		0.0000	1.0000	30.53
90.5	22,607		0.0000	1.0000	30.53
91.5	21,963	1,254	0.0571	0.9429	30.53
92.5	20,708		0.0000	1.0000	28.78
93.5	20,708		0.0000	1.0000	28.78
94.5	20,708		0.0000	1.0000	28.78
95.5	19,694		0.0000	1.0000	28.78
96.5	19,694		0.0000	1.0000	28.78
97.5	19,694		0.0000	1.0000	28.78
98.5	19,694		0.0000	1.0000	28.78
99.5	19,210		0.0000	1.0000	28.78
100.5	19,210		0.0000	1.0000	28.78
101.5	19,210		0.0000	1.0000	28.78
102.5	19,001		0.0000	1.0000	28.78
103.5	16,729		0.0000	1.0000	28.78
104.5					28.78

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 156 of 317

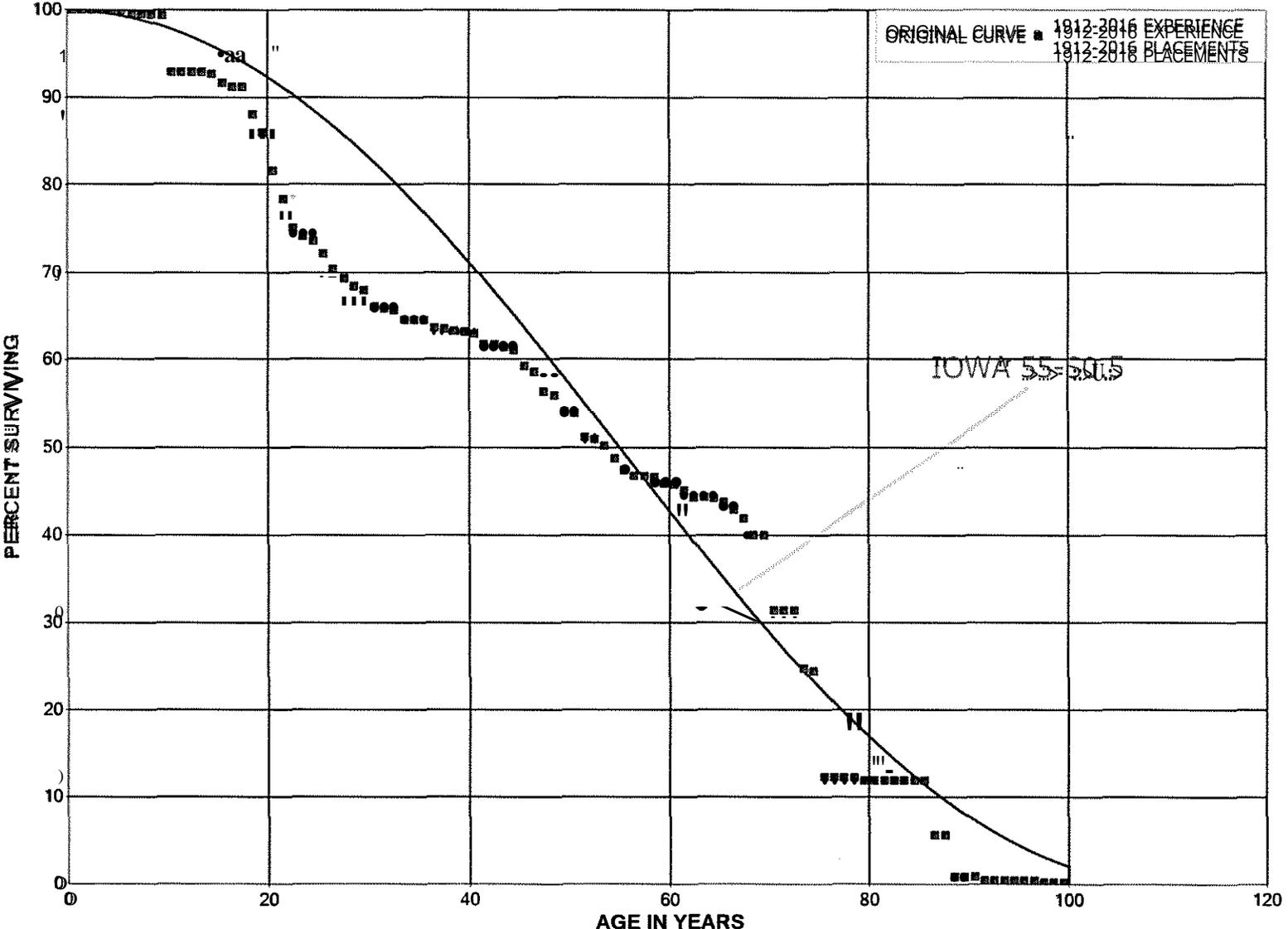


Gannett Fleming

V1-94

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1912-2016

EXPERIENCE BAND 1912-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,598,221	190	0.0000	1.0000	100.00
0.5	4,474,997	1,005	0.0002	0.9998	100.00
1.5	4,452,424		0.0000	1.0000	99.97
2.5	4,354,960	1,541	0.0004	0.9996	99.97
3.5	4,212,858		0.0000	1.0000	99.94
4.5	4,010,779	1,687	0.0004	0.9996	99.94
5.5	3,885,248	12,620	0.0032	0.9968	99.90
6.5	3,782,453	1,978	0.0005	0.9995	99.57
7.5	3,610,935	6,268	0.0017	0.9983	99.52
8.5	3,556,820	1,998	0.0006	0.9994	99.35
9.5	3,471,397	224,176	0.0646	0.9354	99.29
10.5	3,175,515		0.0000	1.0000	92.88
11.5	2,988,778	930	0.0003	0.9997	92.88
12.5	2,712,027		0.0000	1.0000	92.85
13.5	1,982,071	4,728	0.0024	0.9976	92.85
14.5	1,965,405	21,316	0.0108	0.9892	92.63
15.5	1,898,927	8,406	0.0044	0.9956	91.62
16.5	1,651,882	1,284	0.0008	0.9992	91.22
17.5	1,477,942	50,730	0.0343	0.9657	91.15
18.5	1,289,137	29,916	0.0232	0.9768	88.02
19.5	1,036,964	52,501	0.0506	0.9494	85.98
20.5	1,105,568	43,189	0.0391	0.9609	81.62
21.5	1,058,168	45,175	0.0427	0.9573	78.43
22.5	914,708	10,810	0.0118	0.9882	75.09
23.5	858,847	6,951	0.0081	0.9919	74.20
24.5	514,757	10,269	0.0199	0.9801	73.60
25.5	503,627	11,890	0.0236	0.9764	72.13
26.5	486,579	7,612	0.0156	0.9844	70.43
27.5	464,643	5,896	0.0127	0.9873	69.33
28.5	458,746	3,423	0.0075	0.9925	68.45
29.5	402,557	11,106	0.0276	0.9724	67.93
30.5	391,168	1,329	0.0034	0.9966	66.06
31.5	358,571	918	0.0026	0.9974	65.84
32.5	342,570	5,894	0.0172	0.9828	65.67
33.5	335,257	118	0.0004	0.9996	64.54
34.5	331,200	236	0.0007	0.9993	64.52
35.5	328,631	4,267	0.0130	0.9870	64.47
36.5	323,024	678	0.0021	0.9979	63.63
37.5	320,744	960	0.0030	0.9970	63.50
38.5	318,348	396	0.0012	0.9988	63.31

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 158 of 317

DUKE ENERGY PROGRESS

ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1912-2016			EXPERIENCE BAND 1912-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	317,085	1,445	0.0046	0.9954	63.23	
40.5	315,613	6,076	0.0193	0.9807	62.94	
41.5	307,744	192	0.0006	0.9994	61.73	
42.5	151,508	748	0.0049	0.9951	61.69	
43.5	144,091	866	0.0060	0.9940	61.39	
44.5	142,932	4,012	0.0281	0.9719	61.02	
45.5	134,966	1,647	0.0122	0.9878	59.31	
46.5	132,505	4,867	0.0367	0.9633	58.58	
47.5	127,638	1,028	0.0081	0.9919	56.43	
48.5	125,448	4,235	0.0338	0.9662	55.97	
49.5	120,069	386	0.0032	0.9968	54.09	
50.5	119,683	6,060	0.0506	0.9494	53.91	
51.5	113,165	519	0.0046	0.9954	51.18	
52.5	112,646	1,722	0.0153	0.9847	50.95	
53.5	110,774	3,167	0.0286	0.9714	50.17	
54.5	107,607	3,058	0.0284	0.9716	48.73	
55.5	103,927	1,413	0.0136	0.9864	47.35	
56.5	101,488	11	0.0001	0.9999	46.71	
57.5	101,470	136	0.0013	0.9987	46.70	
58.5	100,601	1,623	0.0161	0.9839	46.64	
59.5	98,183	247	0.0025	0.9975	45.89	
60.5	97,936	1,399	0.0143	0.9857	45.77	
61.5	96,536	1,819	0.0188	0.9812	45.12	
62.5	94,717	75	0.0008	0.9992	44.27	
63.5	94,642	172	0.0018	0.9982	44.23	
64.5	94,471	885	0.0094	0.9906	44.15	
65.5	93,586	1,971	0.0211	0.9789	43.74	
66.5	91,615	2,110	0.0230	0.9770	42.82	
67.5	89,505	3,925	0.0438	0.9562	41.83	
68.5	85,580	194	0.0023	0.9977	40.00	
69.5	85,386	18,200	0.2131	0.7869	39.90	
70.5	67,186		0.0000	1.0000	31.40	
71.5	67,186	31	0.0005	0.9995	31.40	
72.5	67,155	14,264	0.2124	0.7876	31.38	
73.5	52,891	718	0.0136	0.9864	24.72	
74.5	52,173	26,048	0.4993	0.5007	24.38	
75.5	26,125		0.0000	1.0000	12.21	
76.5	26,125		0.0000	1.0000	12.21	
77.5	26,125		0.0000	1.0000	12.21	
78.5	26,125	724	0.0277	0.9723	12.21	

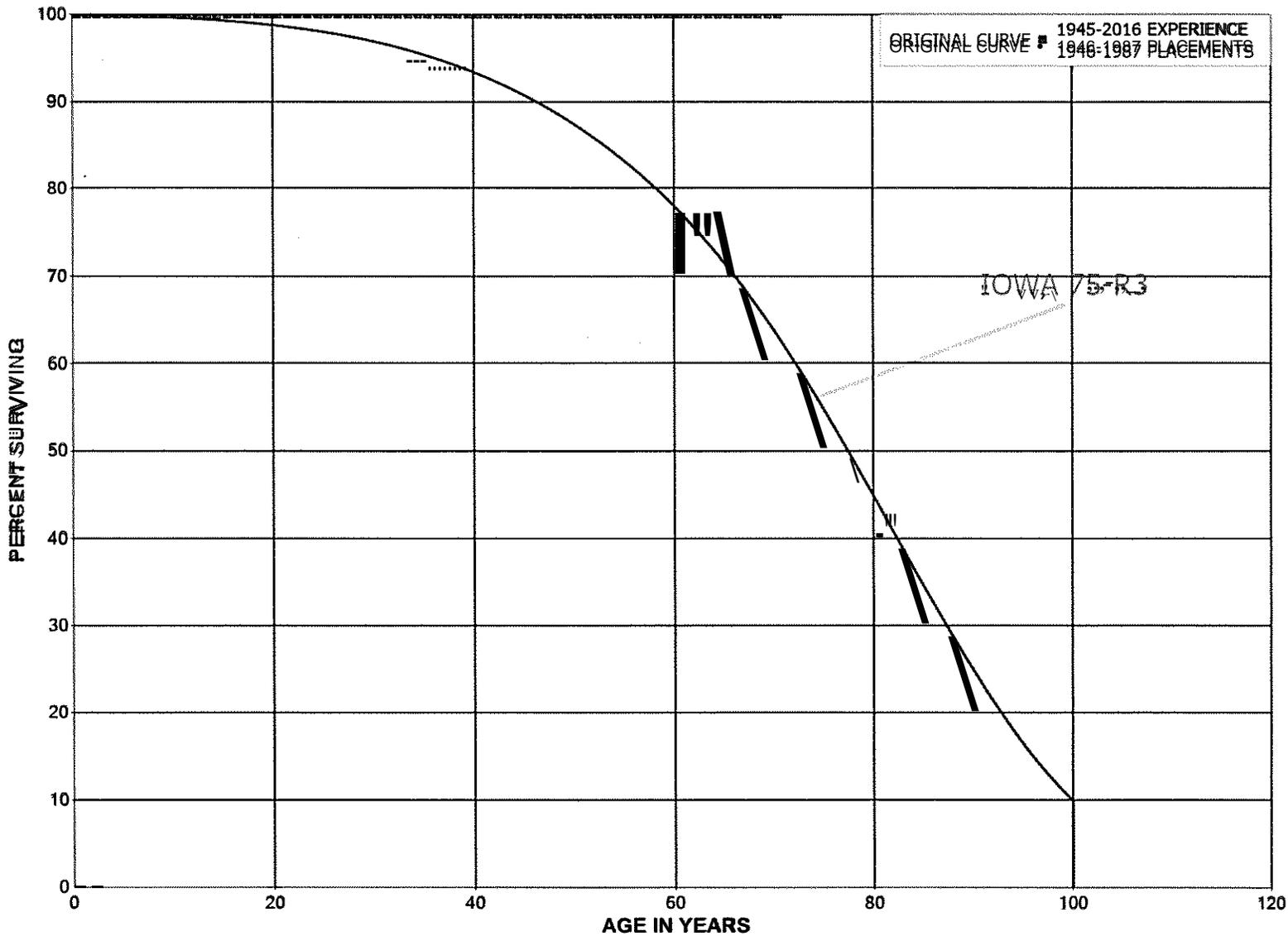
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 159 of 317

DUKE ENERGY PROGRESS
ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1912-2016			EXPERIENCE BAND 1912-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REIMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	25,401		0.0000	1.0000	11.87
80.5	25,401		0.0000	1.0000	11.87
81.5	25,401		0.0000	1.0000	11.87
82.5	25,401	7	0.0003	0.9997	11.87
83.5	25,394	40	0.0016	0.9984	11.87
84.5	25,354		0.0000	1.0000	11.85
85.5	25,354	13,227	0.5217	0.4783	11.85
86.5	12,127		0.0000	1.0000	5.67
87.5	12,127	10,441	0.8610	0.1390	5.67
88.5	1,686		0.0000	1.0000	0.79
89.5	1,686		0.0000	1.0000	0.79
90.5	1,686	953	0.5652	0.4348	0.79
91.5	733		0.0000	1.0000	0.34
92.5	733		0.0000	1.0000	0.34
93.5	733		0.0000	1.0000	0.34
94.5	733		0.0000	1.0000	0.34
95.5	733		0.0000	1.0000	0.34
96.5	733	256	0.3492	0.6508	0.34
97.5	477		0.0000	1.0000	0.22
98.5	477		0.0000	1.0000	0.22
99.5	477		0.0000	1.0000	0.22
100.5	477		0.0000	1.0000	0.22
101.5	477		0.0000	1.0000	0.22
102.5	477		0.0000	1.0000	0.22
103.5	477	477	1.0000		0.22
104.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 160 of 317

DUKE ENERGY PROGRESS
ACCOUNT 336 ROADS, RAILROADS AND BRIDGES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 336 **ROADS, RAILROADS AND BRIDGES**

ORIGINAL LIFE TABLE

PLACEMENT BAND 1946-1987

EXPERIENCE BAND 1945-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	17,671		0.0000	1.0000	100.00
0.5	17,671		0.0000	1.0000	100.00
1.5	17,671		0.0000	1.0000	100.00
2.5	17,671		0.0000	1.0000	100.00
3.5	17,671		0.0000	1.0000	100.00
4.5	17,671		0.0000	1.0000	100.00
5.5	17,686		0.0000	1.0000	100.00
6.5	17,905		0.0000	1.0000	100.00
7.5	21,205		0.0000	1.0000	100.00
8.5	21,205		0.0000	1.0000	100.00
9.5	21,205		0.0000	1.0000	100.00
10.5	21,205		0.0000	1.0000	100.00
11.5	21,205		0.0000	1.0000	100.00
12.5	21,205		0.0000	1.0000	100.00
13.5	21,205		0.0000	1.0000	100.00
14.5	21,205		0.0000	1.0000	100.00
15.5	21,205		0.0000	1.0000	100.00
16.5	21,205		0.0000	1.0000	100.00
17.5	21,205		0.0000	1.0000	100.00
18.5	21,205		0.0000	1.0000	100.00
19.5	21,205		0.0000	1.0000	100.00
20.5	21,205		0.0000	1.0000	100.00
21.5	21,205		0.0000	1.0000	100.00
22.5	21,205		0.0000	1.0000	100.00
23.5	21,205		0.0000	1.0000	100.00
24.5	21,205		0.0000	1.0000	100.00
25.5	21,205		0.0000	1.0000	100.00
26.5	21,205		0.0000	1.0000	100.00
27.5	21,205		0.0000	1.0000	100.00
28.5	21,205		0.0000	1.0000	100.00
29.5	21,166		0.0000	1.0000	100.00
30.5	20,584		0.0000	1.0000	100.00
31.5	8,258		0.0000	1.0000	100.00
32.5	8,258		0.0000	1.0000	100.00
33.5	8,258		0.0000	1.0000	100.00
34.5	8,258		0.0000	1.0000	100.00
35.5	8,258		0.0000	1.0000	100.00
36.5	8,258		0.0000	1.0000	100.00
37.5	8,258		0.0000	1.0000	100.00
38.5	8,258		0.0000	1.0000	100.00

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 162 of 317

DUKE ENERGY PROGRESS

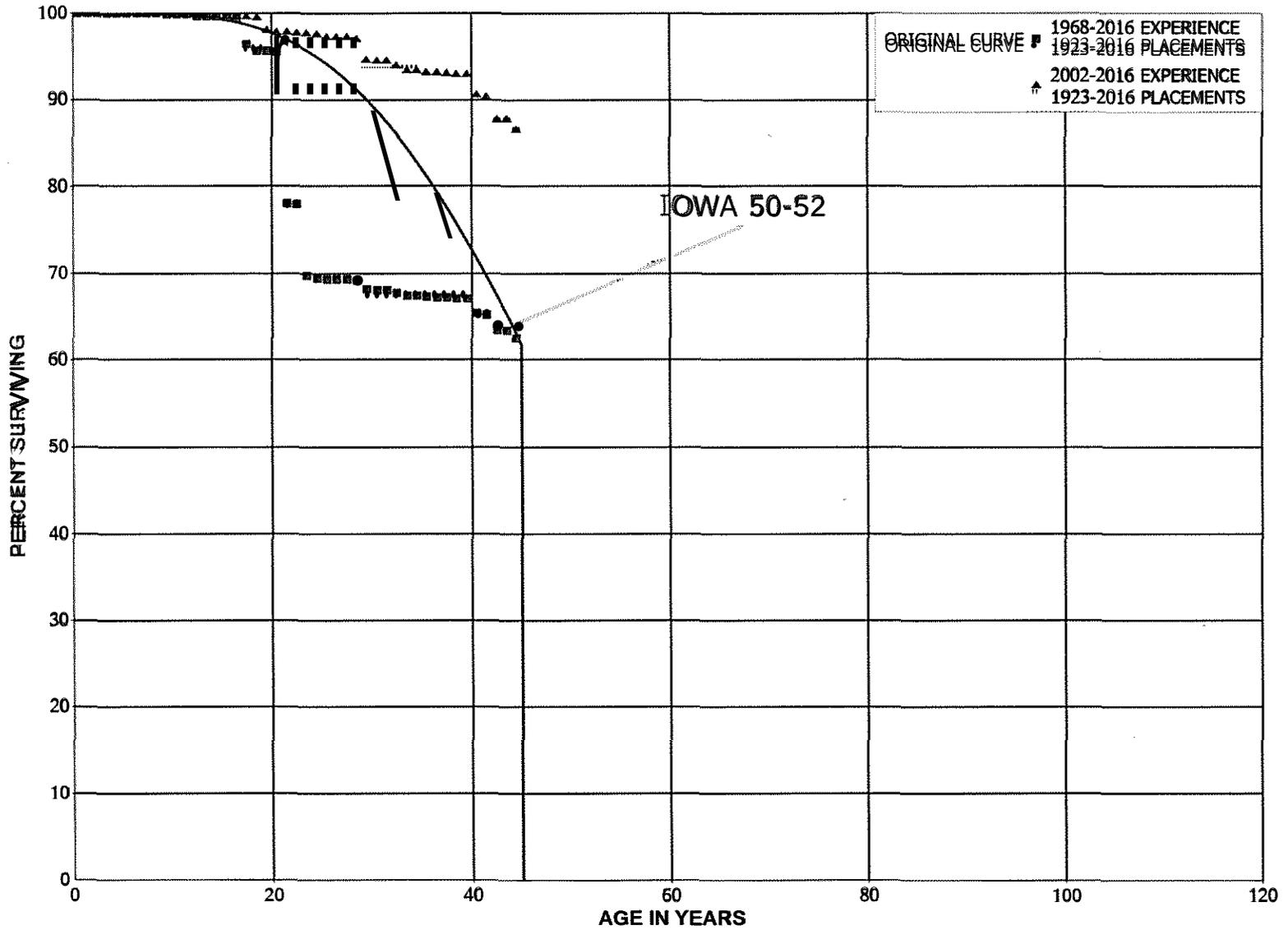
ACCOUNT 336 ROADS, RAILROADS AND BRIDGES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1946-1987			EXPERIENCE BAND 1945-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	8,258		0.0000	1.0000	100.00
40.5	8,258		0.0000	1.0000	100.00
41.5	8,258		0.0000	1.0000	100.00
42.5	8,258		0.0000	1.0000	100.00
43.5	8,258		0.0000	1.0000	100.00
44.5	8,258		0.0000	1.0000	100.00
45.5	8,258		0.0000	1.0000	100.00
46.5	8,258		0.0000	1.0000	100.00
47.5	8,258		0.0000	1.0000	100.00
48.5	8,258		0.0000	1.0000	100.00
49.5	8,258		0.0000	1.0000	100.00
50.5	8,258		0.0000	1.0000	100.00
51.5	8,258		0.0000	1.0000	100.00
52.5	8,258		0.0000	1.0000	100.00
53.5	8,258		0.0000	1.0000	100.00
54.5	8,258		0.0000	1.0000	100.00
55.5	8,258		0.0000	1.0000	100.00
56.5	8,258		0.0000	1.0000	100.00
57.5	8,258		0.0000	1.0000	100.00
58.5	8,258		0.0000	1.0000	100.00
59.5	8,258		0.0000	1.0000	100.00
60.5	8,258		0.0000	1.0000	100.00
61.5	8,258		0.0000	1.0000	100.00
62.5	8,258		0.0000	1.0000	100.00
63.5	8,258		0.0000	1.0000	100.00
64.5	8,258		0.0000	1.0000	100.00
65.5	8,258		0.0000	1.0000	100.00
66.5	8,258		0.0000	1.0000	100.00
67.5	8,258		0.0000	1.0000	100.00
68.5	8,258		0.0000	1.0000	100.00
69.5	8,258		0.0000	1.0000	100.00
70.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 163 of 317

DUKE ENERGY PROGRESS
ACCOUNT 341 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1968-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	198,861,695		0.0000	1.0000	100.00
0.5	193,531,067	11,625	0.0001	0.9999	100.00
1.5	192,272,354	18,072	0.0001	0.9999	99.99
2.5	191,604,502	52,500	0.0003	0.9997	99.98
3.5	179,262,337	61,670	0.0003	0.9997	99.96
4.5	159,256,320	5,131	0.0000	1.0000	99.92
5.5	118,789,231	7,000	0.0001	0.9999	99.92
6.5	118,690,473	2,074	0.0000	1.0000	99.91
7.5	116,061,316		0.0000	1.0000	99.91
8.5	115,867,520	30,000	0.0003	0.9997	99.91
9.5	115,729,706	99,655	0.0009	0.9991	99.89
10.5	115,384,365	6,068	0.0001	0.9999	99.80
11.5	115,161,947	166,767	0.0014	0.9986	99.79
12.5	114,607,982	62,883	0.0005	0.9995	99.65
13.5	113,060,098	4,352	0.0000	1.0000	99.60
14.5	64,471,616	50,225	0.0008	0.9992	99.59
15.5	53,777,141	76,027	0.0014	0.9986	99.51
16.5	44,990,823	1,332,443	0.0296	0.9704	99.37
17.5	15,122,378	122,859	0.0081	0.9919	96.43
18.5	12,250,406	8,650	0.0007	0.9993	95.65
19.5	13,062,535	8,301	0.0006	0.9994	95.58
20.5	12,881,173	2,357,997	0.1831	0.8169	95.52
21.5	10,763,264	5,378	0.0005	0.9995	78.03
22.5	10,506,730	1,113,711	0.1060	0.8940	77.99
23.5	8,539,887	40,997	0.0048	0.9952	69.73
24.5	8,516,111	10,268	0.0012	0.9988	69.39
25.5	8,275,737		0.0000	1.0000	69.31
26.5	8,278,433		0.0000	1.0000	69.31
27.5	8,418,281	12,441	0.0015	0.9985	69.31
28.5	8,278,937	122,491	0.0148	0.9852	69.21
29.5	8,153,103	7,985	0.0010	0.9990	68.18
30.5	9,164,092		0.0000	1.0000	68.12
31.5	9,152,164	50,012	0.0055	0.9945	68.12
32.5	9,128,034	49,389	0.0054	0.9946	67.74
33.5	11,104,986	389	0.0000	1.0000	67.38
34.5	8,550,317	15,475	0.0018	0.9982	67.37
35.5	7,266,509	6,549	0.0009	0.9991	67.25
36.5	7,606,603	4,287	0.0006	0.9994	67.19
37.5	5,616,405	4,872	0.0009	0.9991	67.15
38.5	5,324,676		0.0000	1.0000	67.10

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 165 of 317

DUKE ENERGY PROGRESS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 1968-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	5,244,253	133,895	0.0255	0.9745	67.10
40.5	5,113,030	14,592	0.0029	0.9971	65.38
41.5	4,177,690	118,235	0.0283	0.9717	65.20
42.5	3,035,177		0.0000	1.0000	63.35
43.5	2,851,948	39,337	0.0138	0.9862	63.35
44.5	2,461,151		0.0000	1.0000	62.48
45.5	1,177,147		0.0000	1.0000	62.48
46.5	325,358		0.0000	1.0000	62.48
47.5	39,535		0.0000	1.0000	62.48
48.5	5,707		0.0000	1.0000	62.48
49.5	233,087		0.0000	1.0000	62.48
50.5	2,109,795		0.0000	1.0000	62.48
51.5	2,109,795		0.0000	1.0000	62.48
52.5	2,104,656		0.0000	1.0000	62.48
53.5	1,876,708		0.0000	1.0000	62.48
54.5	71,045		0.0000	1.0000	62.48
55.5	147		0.0000	1.0000	62.48
56.5	700,170		0.0000	1.0000	62.48
57.5	474,879		0.0000	1.0000	62.48
58.5	474,879		0.0000	1.0000	62.48
59.5	482,978		0.0000	1.0000	62.48
60.5	488,109		0.0000	1.0000	62.48
61.5	547,467		0.0000	1.0000	62.48
62.5	747,755		0.0000	1.0000	62.48
63.5	767,229		0.0000	1.0000	62.48
64.5	734,378		0.0000	1.0000	62.48
65.5	297,667		0.0000	1.0000	62.48
66.5	200,288		0.0000	1.0000	62.48
67.5					62.48
68.5					
69.5					
70.5	21,358		0.0000		
71.5					
72.5					
73.5					
74.5					
75.5					
76.5					
77.5					
78.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 166 of 317

DUKE ENERGY PROGRESS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016		EXPERIENCE BAND 1968-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5					
80.5					
81.5					
82.5					
83.5					
84.5					
85.5					
86.5	1,348		0.0000		
87.5					
88.5	15,004		0.0000		
89.5	16,753		0.0000		
90.5					

DUKE ENERGY PROGRESS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 2002-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	134,162,256		0.0000	1.0000	100.00
0.5	139,722,598	11,625	0.0001	0.9999	100.00
1.5	147,308,410	18,072	0.0001	0.9999	99.99
2.5	175,177,996		0.0000	1.0000	99.98
3.5	165,919,392	61,670	0.0004	0.9996	99.98
4.5	145,932,060	5,131	0.0000	1.0000	99.94
5.5	105,483,427	7,000	0.0001	0.9999	99.94
6.5	105,387,657	21074	0.0000	1.0000	99.93
7.5	102,767,150		0.0000	1.0000	99.93
8.5	102,588,949	30,000	0.0003	0.9997	99.93
9.5	102,451,134	99,655	0.0010	0.9990	99.90
10.5	102,105,794	6,068	0.0001	0.9999	99.80
11.5	101,883,376	46,326	0.0005	0.9995	99.80
12.5	101,329,692	62,883	0.0006	0.9994	99.75
13.5	99,782,985	4,352	0.0000	1.0000	99.69
14.5	51,197,773	15,265	0.0003	0.9997	99.69
15.5	40,566,983	45,926	0.0011	0.9989	99.66
16.5	31,810,766	23,421	0.0007	0.9993	99.54
17.5	3,267,982	2,989	0.0009	0.9991	99.47
18.5	585,244	8,650	0.0148	0.9852	99.38
19.5	4,200,510	8,301	0.0020	0.9980	97.91
20.5	4,020,453		0.0000	1.0000	97.72
21.5	4,289,604	3,271	0.0008	0.9992	97.72
22.5	4,227,463		0.0000	1.0000	97.64
23.5	3,392,719	5,826	0.0017	0.9983	97.64
24.5	3,512,334	10,268	0.0029	0.9971	97.47
25.5	3,271,959		0.0000	1.0000	97.19
26.5	3,284,495		0.0000	1.0000	97.19
27.5	4,871,534	12,441	0.0026	0.9974	97.19
28.5	4,893,680	122,491	0.0250	0.9750	96.94
29.5	4,773,653	7,985	0.0017	0.9983	94.52
30.5	7,616,452		0.0000	1.0000	94.36
31.5	8,362,496	50,012	0.0060	0.9940	94.36
32.5	8,923,366	49,389	0.0055	0.9945	93.79
33.5	11,104,986	389	0.0000	1.0000	93.27
34.5	8,550,317	15,475	0.0018	0.9982	93.27
35.5	7,266,509	6,549	0.0009	0.9991	93.10
36.5	7,606,603	4,287	0.0006	0.9994	93.02
37.5	5,616,405	4,872	0.0009	0.9991	92.97
38.5	5,324,676		0.0000	1.0000	92.88

DUKE ENERGY PROGRESS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016			EXPERIENCE BAND 2002-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	5,244,253	133,895	0.0255	0.9745	92.88
40.5	5,113,030	14,592	0.0029	0.9971	90.51
41.5	4,177,690	118,235	0.0283	0.9717	90.25
42.5	3,035,177		0.0000	1.0000	87.70
43.5	2,851,948	39,337	0.0138	0.9862	87.70
44.5	2,461,151		0.0000	1.0000	86.49
45.5	1,177,147		0.0000	1.0000	86.49
46.5	325,358		0.0000	1.0000	86.49
47.5	39,535		0.0000	1.0000	86.49
48.5	5,707		0.0000	1.0000	86.49
49.5	233,087		0.0000	1.0000	86.49
50.5	2,109,795		0.0000	1.0000	86.49
51.5	2,109,795		0.0000	1.0000	86.49
52.5	2,104,656		0.0000	1.0000	86.49
53.5	1,876,708		0.0000	1.0000	86.49
54.5	71,045		0.0000	1.0000	86.49
55.5	147		0.0000	1.0000	86.49
56.5	700,170		0.0000	1.0000	86.49
57.5	474,879		0.0000	1.0000	86.49
58.5	474,879		0.0000	1.0000	86.49
59.5	482,978		0.0000	1.0000	86.49
60.5	488,109		0.0000	1.0000	86.49
61.5	547,467		0.0000	1.0000	86.49
62.5	747,755		0.0000	1.0000	86.49
63.5	767,229		0.0000	1.0000	86.49
64.5	734,378		0.0000	1.0000	86.49
65.5	297,667		0.0000	1.0000	86.49
66.5	200,288		0.0000	1.0000	86.49
67.5					86.49
68.5					
69.5					
70.5	21,358		0.0000		
71.5					
72.5					
73.5					
74.5					
75.5					
76.5					
77.5					
78.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 169 of 317

DUKE ENERGY PROGRESS

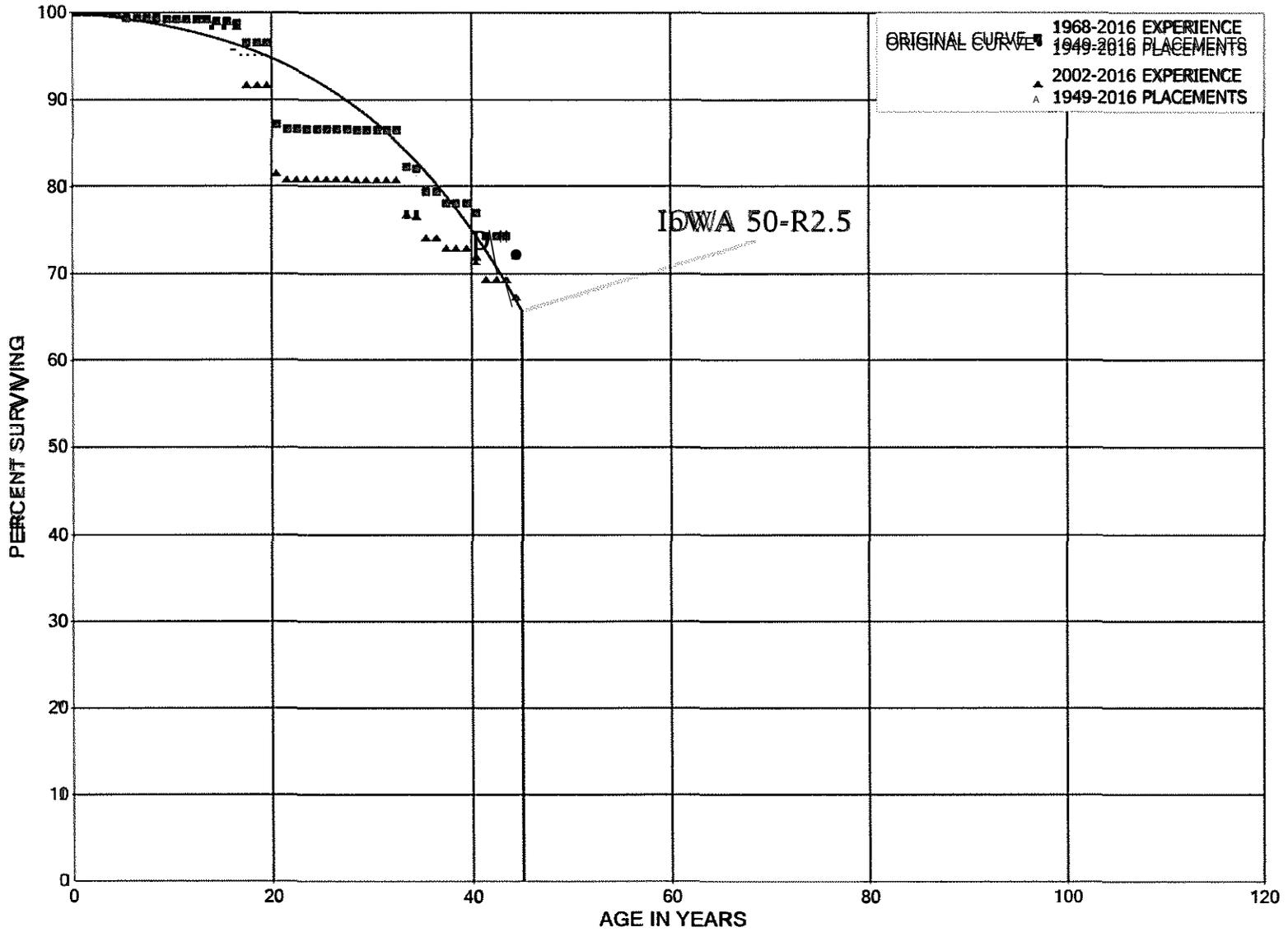
ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016		EXPERIENCE BAND 2002-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5					
80.5					
81.5					
82.5					
83.5					
84.5					
85.5					
86.5	1,348		0.0000		
87.5					
88.5	15,004		0.0000		
89.5	16,753		0.0000		
90.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 170 of 317

DUKE ENERGY PROGRESS
ACCOUNT 342 FUEL HOLDERS, PRODUCTION AND ACCESSORIES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 342 FUEL HOLDERS, PRODUCTION AND ACCESSORIES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1949-2016

EXPERIENCE BAND 1968-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	122,412,100		0.0000	1.0000	100.00
0.5	121,182,502		0.0000	1.0000	100.00
1.5	119,143,498		0.0000	1.0000	100.00
2.5	118,838,146	106,128	0.0009	0.9991	100.00
3.5	98,591,010	116,262	0.0012	0.9988	99.91
4.5	73,129,366	363,178	0.0050	0.9950	99.79
5.5	50,019,005		0.0000	1.0000	99.30
6.5	49,875,037		0.0000	1.0000	99.30
7.5	46,984,609	12,512	0.0003	0.9997	99.30
8.5	46,972,097	30,732	0.0007	0.9993	99.27
9.5	46,959,556	14,500	0.0003	0.9997	99.21
10.5	46,945,056	1,175	0.0000	1.0000	99.18
11.5	46,894,495	2,677	0.0001	0.9999	99.17
12.5	44,461,769		0.0000	1.0000	99.17
13.5	44,359,609	86,754	0.0020	0.9980	99.17
14.5	30,458,943		0.0000	1.0000	98.97
15.5	22,793,657	69,675	0.0031	0.9969	98.97
16.5	17,066,188	369,650	0.0217	0.9783	98.67
17.5	13,089,726		0.0000	1.0000	96.53
18.5	11,880,930	30	0.0000	1.0000	96.53
19.5	11,874,595	1,150,431	0.0969	0.9031	96.53
20.5	10,724,164	72,213	0.0067	0.9933	87.18
21.5	10,503,351		0.0000	1.0000	86.59
22.5	10,418,934		0.0000	1.0000	86.59
23.5	10,418,934		0.0000	1.0000	86.59
24.5	10,435,460		0.0000	1.0000	86.59
25.5	10,399,725		0.0000	1.0000	86.59
26.5	10,400,857	0	0.0000	1.0000	86.59
27.5	10,399,725	6,053	0.0006	0.9994	86.59
28.5	10,393,671	2,100	0.0002	0.9998	86.54
29.5	10,392,658	262	0.0000	1.0000	86.53
30.5	10,440,425	0	0.0000	1.0000	86.52
31.5	10,440,425	770	0.0001	0.9999	86.52
32.5	10,423,573	511,518	0.0491	0.9509	86.52
33.5	3,483,097	9,322	0.0027	0.9973	82.27
34.5	1,512,861	48,595	0.0321	0.9679	82.05
35.5	1,414,839	10	0.0000	1.0000	79.42
36.5	1,408,026	23,192	0.0165	0.9835	79.42
37.5	1,380,821	758	0.0005	0.9995	78.11
38.5	1,375,948	100	0.0001	0.9999	78.06

DUKE ENERGY PROGRESS

ACCOUNT 342 FUEL HOLDERS, PRODUCTION AND ACCESSORIES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1949-2016			EXPERIENCE BAND 1968-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	1,355,250	18,317	0.0135	0.9865	78.06	
40.5	1,336,707	46,888	0.0351	0.9649	77.00	
41.5	1,007,485		0.0000	1.0000	74.30	
42.5	954,565		0.0000	1.0000	74.30	
43.5	806,472	23,996	0.0298	0.9702	74.30	
44.5	631,006		0.0000	1.0000	72.09	
45.5	310,331		0.0000	1.0000	72.09	
46.5	95,854		0.0000	1.0000	72.09	
47.5	25,855		0.0000	1.0000	72.09	
48.5					72.09	
49.5						
50.5						
51.5						
52.5						
53.5						
54.5						
55.5						
56.5						
57.5						
58.5						
59.5						
60.5						
61.5						
62.5	18,653		0.0000			
63.5	18,653		0.0000			
64.5	18,653		0.0000			
65.5	18,653		0.0000			
66.5	18,653		0.0000			
67.5						

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 173 of 317

DUKE ENERGY PROGRESS

ACCOUNT 342 FUEL HOLDERS, PRODUCTION AND ACCESSORIES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1949-2016			EXPERIENCE BAND 2002-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	91,945,539		0.0000	1.0000	100.00
0.5	98,386,386		0.0000	1.0000	100.00
1.5	102,224,340		0.0000	1.0000	100.00
2.5	105,979,866	100,828	0.0010	0.9990	100.00
3.5	86,951,902	116,262	0.0013	0.9987	99.90
4.5	61,496,567	363,178	0.0059	0.9941	99.77
5.5	38,395,588		0.0000	1.0000	99.18
6.5	38,251,620		0.0000	1.0000	99.18
7.5	35,361,192	12,512	0.0004	0.9996	99.18
8.5	35,348,680	30,732	0.0009	0.9991	99.15
9.5	35,317,948	14,500	0.0004	0.9996	99.06
10.5	35,318,314	1,175	0.0000	1.0000	99.02
11.5	35,267,753	2,677	0.0001	0.9999	99.02
12.5	32,835,027		0.0000	1.0000	99.01
13.5	32,737,210	86,754	0.0027	0.9973	99.01
14.5	18,836,544		0.0000	1.0000	98.75
15.5	11,171,258	69,675	0.0062	0.9938	98.75
16.5	5,443,789	369,650	0.0679	0.9321	98.13
17.5	1,484,209		0.0000	1.0000	91.47
18.5	8,346,395	30	0.0000	1.0000	91.47
19.5	10,394,922	1,150,431	0.1107	0.8893	91.47
20.5	9,244,492	72,213	0.0078	0.9922	81.34
21.5	9,030,480		0.0000	1.0000	80.71
22.5	8,946,064		0.0000	1.0000	80.71
23.5	8,949,635		0.0000	1.0000	80.71
24.5	8,966,161		0.0000	1.0000	80.71
25.5	8,930,663		0.0000	1.0000	80.71
26.5	9,005,645	0	0.0000	1.0000	80.71
27.5	9,061,520	6,053	0.0007	0.9993	80.71
28.5	9,224,668	2,100	0.0002	0.9998	80.66
29.5	9,274,148	262	0.0000	1.0000	80.64
30.5	9,919,171	0	0.0000	1.0000	80.63
31.5	10,177,410	770	0.0001	0.9999	80.63
32.5	10,330,558	511,518	0.0495	0.9505	80.63
33.5	3,483,097	9,322	0.0027	0.9973	76.64
34.5	1,512,861	48,595	0.0321	0.9679	76.43
35.5	1,414,839	10	0.0000	1.0000	73.98
36.5	1,408,026	23,192	0.0165	0.9835	73.98
37.5	1,380,821	758	0.0005	0.9995	72.76
38.5	1,375,948	100	0.0001	0.9999	72.72

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 174 of 317

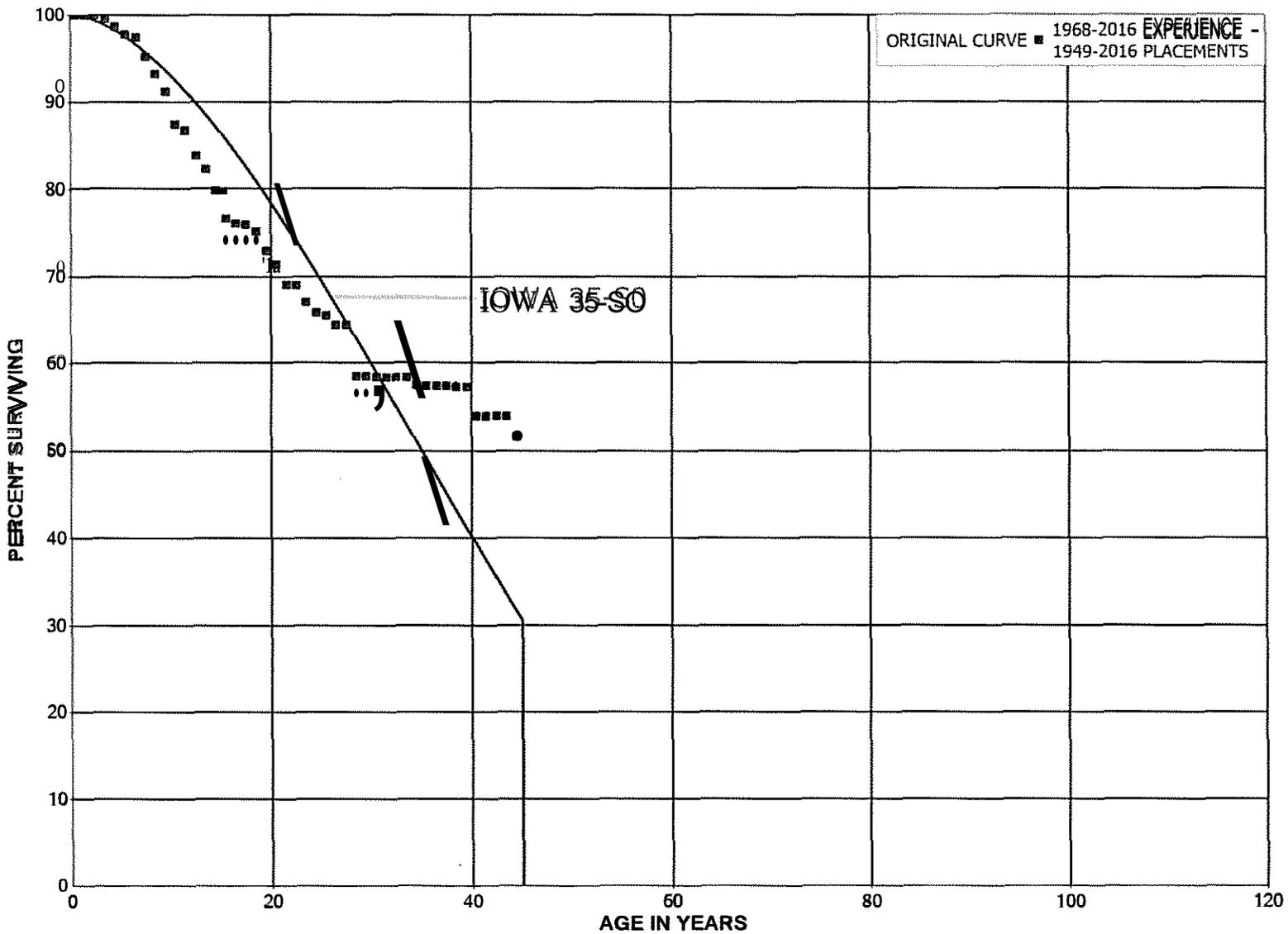
DUKE ENERGY PROGRESS

ACCOUNT 342 FUEL HOLDERS, PRODUCTION AND ACCESSORIES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1949-2016			EXPERIENCE BAND 2002-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	1,355,250	18,317	0.0135	0.9865	72.71	
40.5	1,336,707	46,888	0.0351	0.9649	71.73	
41.5	1,007,485		0.0000	1.0000	69.21	
42.5	954,565		0.0000	1.0000	69.21	
43.5	806,472	23,996	0.0298	0.9702	69.21	
44.5	631,006		0.0000	1.0000	67.15	
45.5	310,331		0.0000	1.0000	67.15	
46.5	95,854		0.0000	1.0000	67.15	
47.5	25,855		0.0000	1.0000	67.15	
48.5					67.15	
49.5						
50.5						
51.5						
52.5						
53.5						
54.5						
55.5						
56.5						
57.5						
58.5						
59.5						
60.5						
61.5						
62.5	18,653		0.0000			
63.5	18,653		0.0000			
64.5	18,653		0.0000			
65.5	18,653		0.0000			
66.5	18,653		0.0000			
67.5						

DUKE ENERGY PROGRESS
ACCOUNT 343 PRIME MOVERS - ALL LOCATIONS EXCLUDING RICHMOND SIMPLE CYCLE
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

WL-113

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 343 PRIME MOVERS - ALL LOCATIONS EXCLUDING RICHMOND SIMPLE CYCLE

ORIGINAL LIFE TABLE

PLACEMENT BAND 1949-2016			EXPERIENCE BAND 1968-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,616,513,976	512,981	0.0003	0.9997	100.00
0.5	1,599,522,255		0.0000	1.0000	99.97
1.5	1,584,523,995	14,235	0.0000	1.0000	99.97
2.5	1,541,369,609	6,874,565	0.0045	0.9955	99.97
3.5	1,147,763,378	10,007,752	0.0087	0.9913	99.52
4.5	705,771,182	6,674,078	0.0095	0.9905	98.65
5.5	395,732,962	1,439,505	0.0036	0.9964	97.72
6.5	384,772,389	8,829,992	0.0229	0.9771	97.37
7.5	322,025,053	6,744,367	0.0209	0.9791	95.13
8.5	312,016,143	6,460,702	0.0207	0.9793	93.14
9.5	299,312,276	12,550,260	0.0419	0.9581	91.21
10.5	285,168,215	2,006,423	0.0070	0.9930	87.39
11.5	282,931,247	9,742,598	0.0344	0.9656	86.77
12.5	267,967,627	4,845,318	0.0181	0.9819	83.78
13.5	260,352,001	7,660,044	0.0294	0.9706	82.27
14.5	189,241,139	7,625,075	0.0403	0.9597	79.85
15.5	159,460,689	1,108,193	0.0069	0.9931	76.63
16.5	80,960,950	200,961	0.0025	0.9975	76.10
17.5	64,232,971	651,117	0.0101	0.9899	75.91
18.5	55,812,335	1,605,557	0.0288	0.9712	75.14
19.5	51,614,263	1,145,367	0.0222	0.9778	72.98
20.5	39,935,967	1,301,439	0.0326	0.9674	71.36
21.5	34,767,760		0.0000	1.0000	69.03
22.5	32,949,908	922,743	0.0280	0.9720	69.03
23.5	31,547,746	571,599	0.0181	0.9819	67.10
24.5	30,976,147	157,061	0.0051	0.9949	65.88
25.5	30,798,502	525,883	0.0171	0.9829	65.55
26.5	28,149,381		0.0000	1.0000	64.43
27.5	28,149,381	2,596,424	0.0922	0.9078	64.43
28.5	25,552,957		0.0000	1.0000	58.49
29.5	24,501,107	55,183	0.0023	0.9977	58.49
30.5	24,428,554		0.0000	1.0000	58.36
31.5	24,260,573	0	0.0000	1.0000	58.36
32.5	24,151,819		0.0000	1.0000	58.36
33.5	23,793,154	366,022	0.0154	0.9846	58.36
34.5	23,198,483	11,894	0.0005	0.9995	57.46
35.5	22,999,461		0.0000	1.0000	57.43
36.5	23,167,839	2	0.0000	1.0000	57.43
37.5	23,016,904	53,477	0.0023	0.9977	57.43
38.5	22,962,847	4,794	0.0002	0.9998	57.30

DUKE ENERGY PROGRESS

ACCOUNT 343.01 PRIME MOVERS - ALL LOCATIONS EXCLUDING RICHMOND SIMPLE CYCLE

ORIGINAL LIFE TABLE, CONT.

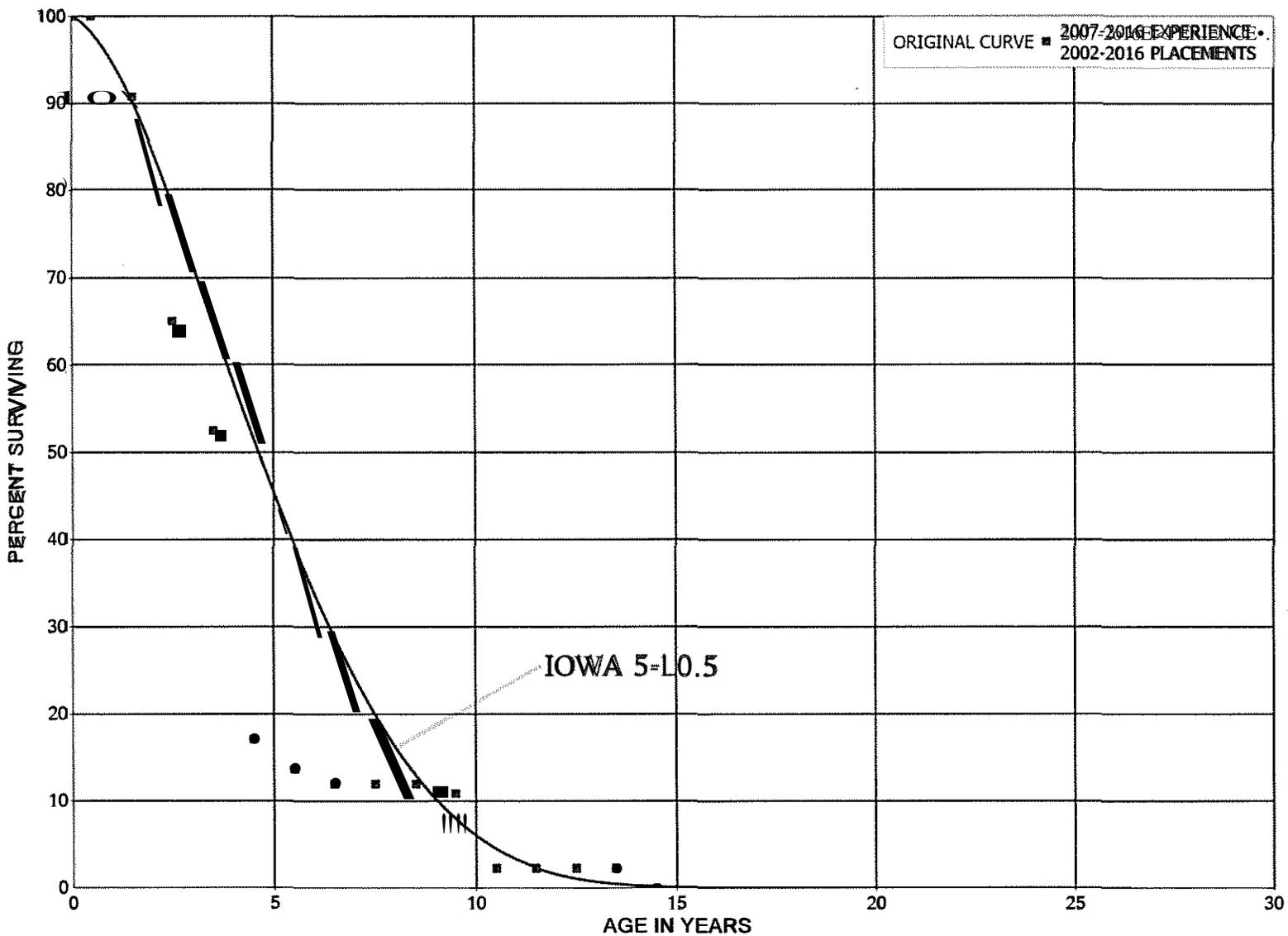
PLACEMENT BAND 1949-2016

EXPERIENCE BAND 1968-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	22,477,748	1,306,744	0.0581	0.9419	57.28
40.5	20,902,580		0.0000	1.0000	53.95
41.5	19,211,597	2,999	0.0002	0.9998	53.95
42.5	19,201,657	4,327	0.0002	0.9998	53.94
43.5	19,159,751	833,914	0.0435	0.9565	53.93
44.5	13,949,409		0.0000	1.0000	51.59
45.5	7,606,812		0.0000	1.0000	51.59
46.5	4,195,010		0.0000	1.0000	51.59
47.5	1,097,911		0.0000	1.0000	51.59
48.5					51.59
49.5					
50.5					
51.5					
52.5					
53.5					
54.5					
55.5					
56.5	1,475		0.0000		
57.5	1,475		0.0000		
58.5	1,475		0.0000		
59.5	75,771		0.0000		
60.5	75,771		0.0000		
61.5	106,869		0.0000		
62.5	159,990		0.0000		
63.5	159,990		0.0000		
64.5	85,694		0.0000		
65.5	85,694		0.0000		
66.5	53,121		0.0000		
67.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 178 of 317

DUKE ENERGY PROGRESS
ACCOUNT 343.1 PRIME MOVERS - ROTABLE PARTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

WL-116

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 343.1 PRIME MOVERS - ROTABLE PARTS

ORIGINAL LIFE TABLE

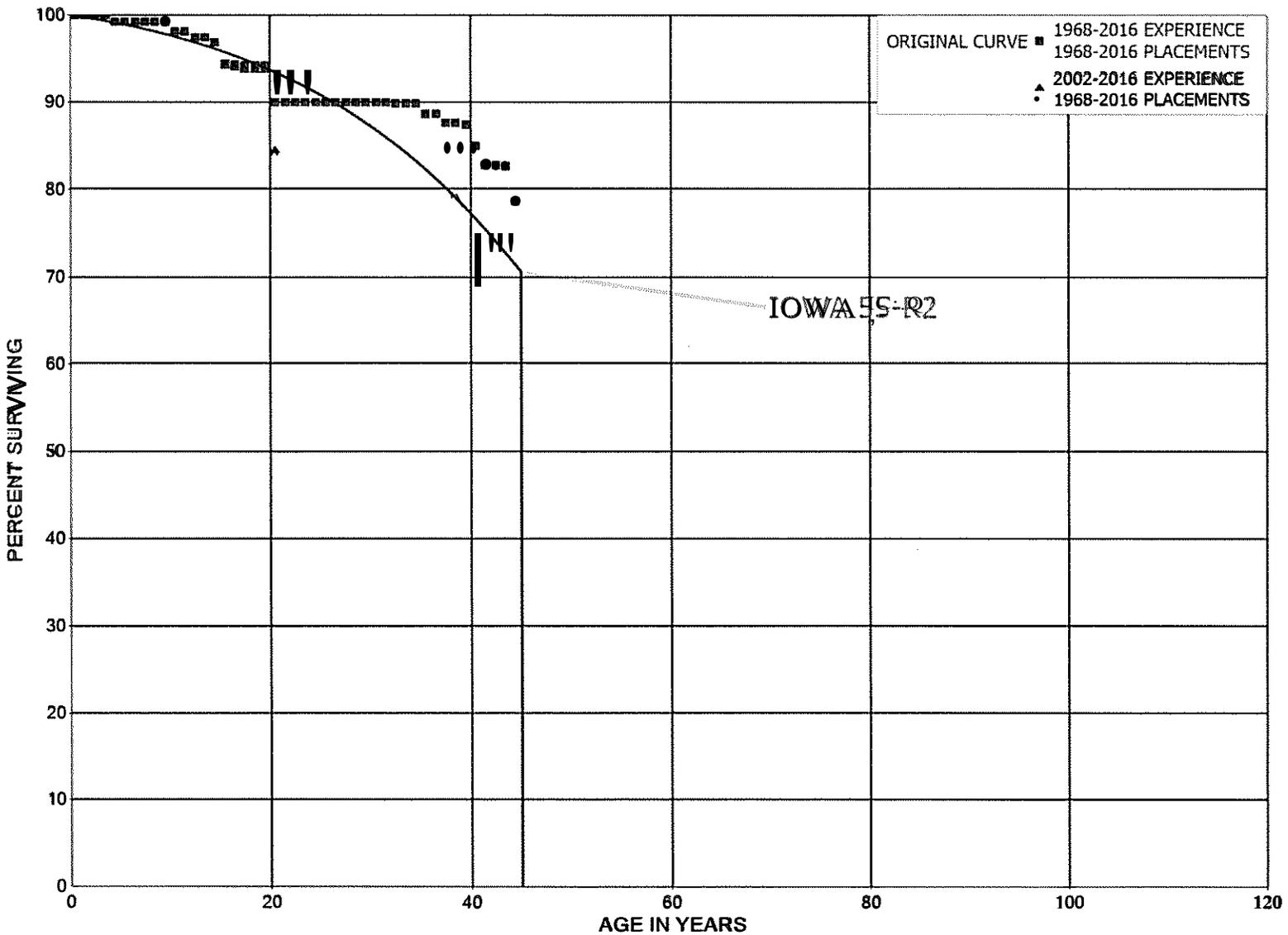
PLACEMENT BAND 2002-2016

EXPERIENCE BAND 2007-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	284,501,464		0.0000	1.0000	100.00
0.5	206,814,783	19,074,417	0.0922	0.9078	100.00
1.5	173,958,365	49,221,592	0.2830	0.7170	90.78
2.5	98,548,612	19,068,114	0.1935	0.8065	65.09
3.5	48,280,287	32,539,954	0.6740	0.3260	52.50
4.5	90,119,421	18,150,631	0.2014	0.7986	17.12
5.5	64,413,661	7,949,867	0.1234	0.8766	13.67
6.5	56,463,794	81,720	0.0014	0.9986	11.98
7.5	56,382,074		0.0000	1.0000	11.96
8.5	56,382,074	5,315,555	0.0943	0.9057	11.96
9.5	51,066,518	40,827,172	0.7995	0.2005	10.84
10.5	10,239,046		0.0000	1.0000	2.17
11.5	10,239,046		0.0000	1.0000	2.17
12.5	10,239,046		0.0000	1.0000	2.17
13.5	10,239,046	10,239,046	1.0000		2.17
14.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 180 of 317

DUKE ENERGY PROGRESS
ACCOUNT 344 GENERATORS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

WL-118

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
ACCOUNT 344 GENERATORS
ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2016

EXPERIENCE BAND 1968-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	307,750,565		0.0000	1.0000	100.00
0.5	303,184,086	9,517	0.0000	1.0000	100.00
1.5	301,012,381	8,587	0.0000	1.0000	100.00
2.5	300,857,493		0.0000	1.0000	99.99
3.5	253,796,965	1,978,967	0.0078	0.9922	99.99
4.5	196,436,767		0.0000	1.0000	99.21
5.5	164,922,041		0.0000	1.0000	99.21
6.5	163,544,903	15,355	0.0001	0.9999	99.21
7.5	150,239,461		0.0000	1.0000	99.20
8.5	150,197,146		0.0000	1.0000	99.20
9.5	150,197,146	1,773,249	0.0118	0.9882	99.20
10.5	147,780,547		0.0000	1.0000	98.03
11.5	146,627,267	934,070	0.0064	0.9936	98.03
12.5	145,655,097	26,549	0.0002	0.9998	97.41
13.5	141,791,105	790,786	0.0056	0.9944	97.39
14.5	98,345,677	2,469,726	0.0251	0.9749	96.85
15.5	61,650,711	80,708	0.0013	0.9987	94.42
16.5	34,356,605	48,689	0.0014	0.9986	94.29
17.5	32,691,831		0.0000	1.0000	94.16
18.5	21,449,729		0.0000	1.0000	94.16
19.5	21,440,729	968,182	0.0452	0.9548	94.16
20.5	11,615,803		0.0000	1.0000	89.91
21.5	11,615,803		0.0000	1.0000	89.91
22.5	11,615,803		0.0000	1.0000	89.91
23.5	11,615,803		0.0000	1.0000	89.91
24.5	11,615,803		0.0000	1.0000	89.91
25.5	11,615,803		0.0000	1.0000	89.91
26.5	11,615,803		0.0000	1.0000	89.91
27.5	11,615,803		0.0000	1.0000	89.91
28.5	11,615,803		0.0000	1.0000	89.91
29.5	11,615,803		0.0000	1.0000	89.91
30.5	11,615,803	463	0.0000	1.0000	89.91
31.5	11,615,340	13,219	0.0011	0.9989	89.90
32.5	11,602,121		0.0000	1.0000	89.80
33.5	11,602,121	726	0.0001	0.9999	89.80
34.5	11,601,395	156,250	0.0135	0.9865	89.80
35.5	11,445,145	0	0.0000	1.0000	88.59
36.5	11,445,145	120,175	0.0105	0.9895	88.59
37.5	11,324,970	5,501	0.0005	0.9995	87.66
38.5	11,319,469	22,140	0.0020	0.9980	87.61

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 182 of 317

DUKE ENERGY PROGRESS
ACCOUNT 344 GENERATORS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2016			EXPERIENCE BAND 1968-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	11,297,329	314,478	0.0278	0.9722	87.44	
40.5	10,982,850	299,852	0.0273	0.9727	85.01	
41.5	9,430,501		0.0000	1.0000	82.69	
42.5	6,648,204	7,100	0.0011	0.9989	82.69	
43.5	5,476,513	265,347	0.0485	0.9515	82.60	
44.5	4,110,265		0.0000	1.0000	78.60	
45.5	2,143,130		0.0000	1.0000	78.60	
46.5	1,172,327		0.0000	1.0000	78.60	
47.5	297,494		0.0000	1.0000	78.60	
48.5					78.60	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 183 of 317

DUKE ENERGY PROGRESS
ACCOUNT 344 GENERATORS
ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2016		EXPERIENCE BAND 2002-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	207,548,892		0.0000	1.0000	100.00
0.5	229,558,995	9,517	0.0000	1.0000	100.00
1.5	254,803,357	8,587	0.0000	1.0000	100.00
2.5	256,313,243		0.0000	1.0000	99.99
3.5	231,234,455	1,978,967	0.0086	0.9914	99.99
4.5	173,883,258		0.0000	1.0000	99.14
5.5	153,018,532		0.0000	1.0000	99.14
6.5	151,641,394	15,355	0.0001	0.9999	99.14
7.5	138,335,952		0.0000	1.0000	99.13
8.5	138,293,637		0.0000	1.0000	99.13
9.5	138,293,637	1,485,543	0.0107	0.9893	99.13
10.5	136,164,744		0.0000	1.0000	98.06
11.5	135,011,465	934,070	0.0069	0.9931	98.06
12.5	134,039,295	26,549	0.0002	0.9998	97.38
13.5	130,175,303	790,786	0.0061	0.9939	97.36
14.5	86,729,874	2,469,726	0.0285	0.9715	96.77
15.5	50,034,908	80,708	0.0016	0.9984	94.02
16.5	22,740,803	48,689	0.0021	0.9979	93.87
17.5	21,076,028		0.0000	1.0000	93.66
18.5	9,833,926		0.0000	1.0000	93.66
19.5	9,824,926	968,182	0.0985	0.9015	93.66
20.5					84.43
21.5					
22.5					
23.5					
24.5					
25.5	15,648		0.0000		
26.5	688,664		0.0000		
27.5	3,483,268		0.0000		
28.5	4,639,621		0.0000		
29.5	4,639,621		0.0000		
30.5	7,469,757	463	0.0001		
31.5	8,458,301	13,219	0.0016		
32.5	10,167,225		0.0000		
33.5	11,602,121	726	0.0001		
34.5	11,601,395	156,250	0.0135		
35.5	11,445,145	0	0.0000		
36.5	11,445,145	120,175	0.0105		
37.5	11,324,970	5,501	0.0005		
38.5	11,319,469	22,140	0.0020		

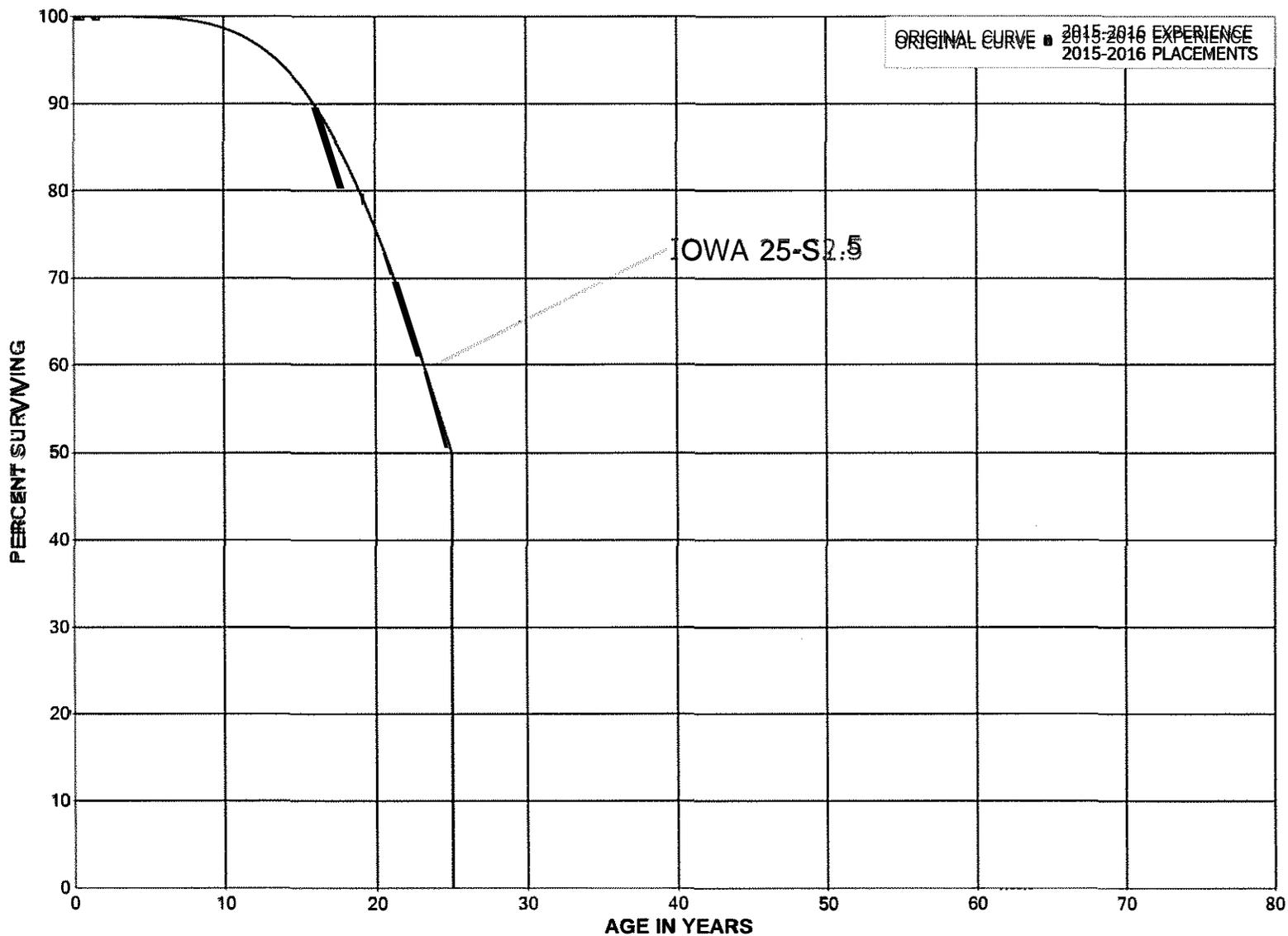
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 184 of 317

DUKE ENERGY PROGRESS
ACCOUNT 344 GENERATORS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2016			EXPERIENCE BAND 2002-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	11,297,329	314,478	0.0278		
40.5	10,982,850	299,852	0.0273		
41.5	9,430,501		0.0000		
42.5	6,648,204	7,100	0.0011		
43.5	5,476,513	265,347	0.0485		
44.5	4,110,265		0.0000		
45.5	2,143,130		0.0000		
46.5	1,172,327		0.0000		
47.5	297,494		0.0000		
48.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 185 of 317

DUKE ENERGY PROGRESS
ACCOUNT 344.1 GENERATORS - SOLAR
ORIGINAL AND SMOOTH SURVIVOR CURVES

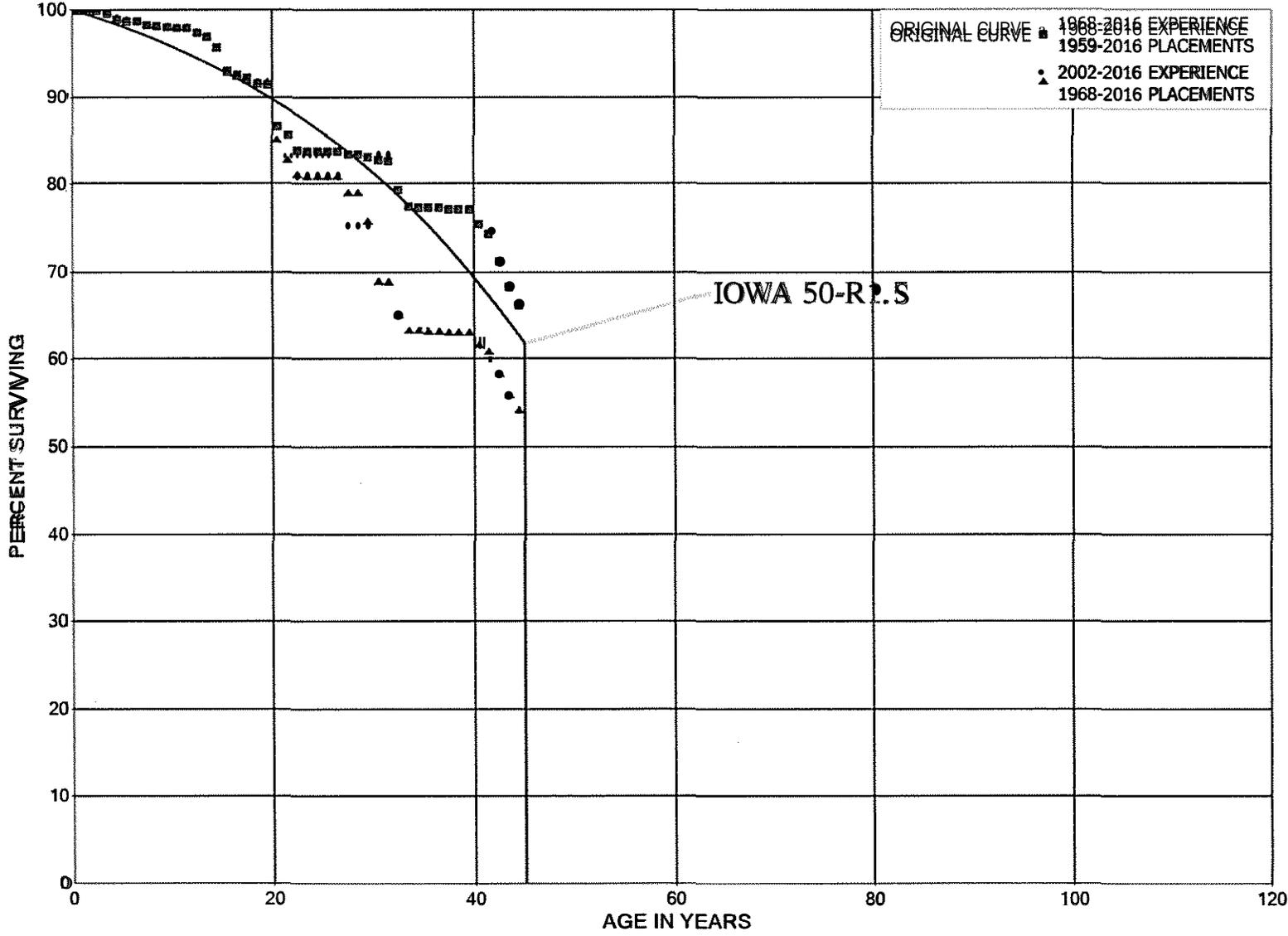


DUKE ENERGY PROGRESS
ACCOUNT 344.1 GENERATORS - SOLAR

ORIGINAL LIFE TABLE

PLACEMENT BAND 2015-2016		EXPERIENCE BAND 2015-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	179,194,342		0.0000	1.0000	100.00
0.5	131,513,549		0.0000	1.0000	100.00
1.5					100.00

DUKE ENERGY PROGRESS
ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1968-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	317,638,545	451,362	0.0014	0.9986	100.00
0.5	313,009,839		0.0000	1.0000	99.86
1.5	301,713,924	56,772	0.0002	0.9998	99.86
2.5	301,197,810	1,014,658	0.0034	0.9966	99.84
3.5	237,447,823	1,531,657	0.0065	0.9935	99.50
4.5	159,813,358	362,847	0.0023	0.9977	98.86
5.5	108,388,317	61,843	0.0006	0.9994	98.64
6.5	105,705,667	491,170	0.0046	0.9954	98.58
7.5	94,342,641	90,710	0.0010	0.9990	98.12
8.5	94,201,310	49,594	0.0005	0.9995	98.03
9.5	94,050,993	116,593	0.0012	0.9988	97.98
10.5	92,627,455	32,036	0.0003	0.9997	97.85
11.5	92,050,096	479,392	0.0052	0.9948	97.82
12.5	91,646,428	493,229	0.0054	0.9946	97.31
13.5	91,005,300	1,111,913	0.0122	0.9878	96.79
14.5	68,809,679	1,923,332	0.0280	0.9720	95.61
15.5	44,104,444	225,202	0.0051	0.9949	92.93
16.5	18,991,450	60,784	0.0032	0.9968	92.46
17.5	17,228,236	130,717	0.0076	0.9924	92.16
18.5	14,295,424	4,160	0.0003	0.9997	91.46
19.5	14,276,528	745,401	0.0522	0.9478	91.44
20.5	7,873,272	99,142	0.0126	0.9874	86.66
21.5	7,141,059	145,667	0.0204	0.9796	85.57
22.5	5,084,507	6,389	0.0013	0.9987	83.83
23.5	5,103,323		0.0000	1.0000	83.72
24.5	4,984,602		0.0000	1.0000	83.72
25.5	4,947,776		0.0000	1.0000	83.72
26.5	4,908,717	16,529	0.0034	0.9966	83.72
27.5	4,568,525	1,706	0.0004	0.9996	83.44
28.5	4,565,058	17,606	0.0039	0.9961	83.41
29.5	4,370,013	19,845	0.0045	0.9955	83.09
30.5	4,349,924	4,634	0.0011	0.9989	82.71
31.5	4,326,730	173,383	0.0401	0.9599	82.62
32.5	4,107,818	97,973	0.0239	0.9761	79.31
33.5	3,972,682	5,513	0.0014	0.9986	77.42
34.5	3,961,243	3,856	0.0010	0.9990	77.31
35.5	3,957,387	56	0.0000	1.0000	77.24
36.5	3,957,331	7,406	0.0019	0.9981	77.23
37.5	3,919,382		0.0000	1.0000	77.09
38.5	3,919,382	1,710	0.0004	0.9996	77.09

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 189 of 317

DUKE ENERGY PROGRESS

ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1959-2016			EXPERIENCE BAND 1968-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,912,967	85,567	0.0219	0.9781	77.06
40.5	3,827,400	52,861	0.0138	0.9862	75.37
41.5	2,821,517	119,398	0.0423	0.9577	74.33
42.5	2,702,119	110,246	0.0408	0.9592	71.18
43.5	2,591,873	80,862	0.0312	0.9688	68.28
44.5	2,003,154		0.0000	1.0000	66.15
45.5	692,568		0.0000	1.0000	66.15
46.5	477,947		0.0000	1.0000	66.15
47.5	84,807		0.0000	1.0000	66.15
48.5					66.15

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 190 of 317

DUKE ENERGY PROGRESS

ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2016

EXPERIENCE BAND 2002-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	246,752,100	15,424	0.0001	0.9999	100.00
0.5	266,406,902		0.0000	1.0000	99.99
1.5	281,971,145	14,285	0.0001	0.9999	99.99
2.5	283,199,036	1,014,658	0.0036	0.9964	99.99
3.5	222,848,851	1,531,657	0.0069	0.9931	99.63
4.5	145,243,913	362,847	0.0025	0.9975	98.95
5.5	100,490,080	61,843	0.0006	0.9994	98.70
6.5	97,934,354	491,170	0.0050	0.9950	98.64
7.5	88,591,562	90,710	0.0010	0.9990	98.14
8.5	88,503,558	49,594	0.0006	0.9994	98.04
9.5	88,482,380	116,593	0.0013	0.9987	97.99
10.5	87,641,923	32,036	0.0004	0.9996	97.86
11.5	87,103,965	479,392	0.0055	0.9945	97.82
12.5	86,918,121	477,942	0.0055	0.9945	97.28
13.5	86,296,815	1,111,913	0.0129	0.9971	96.75
14.5	64,141,215	1,923,332	0.0300	0.9700	95.50
15.5	39,451,803	219,204	0.0056	0.9944	92.64
16.5	14,308,497	60,784	0.0042	0.9958	92.12
17.5	12,749,402	15,677	0.0012	0.9988	91.73
18.5	9,851,362	4,112	0.0004	0.9996	91.62
19.5	9,838,440	707,055	0.0079	0.9281	91.58
20.5	3,490,717	99,142	0.0028	0.9716	85.00
21.5	2,761,452	54,191	0.0019	0.9804	82.59
22.5	796,377	2,893	0.0036	0.9964	80.97
23.5	746,161		0.0000	1.0000	80.67
24.5	702,460		0.0000	1.0000	80.67
25.5	682,163		0.0000	1.0000	80.67
26.5	722,428	16,529	0.0029	0.9771	80.67
27.5	382,260	8	0.0000	1.0000	78.83
28.5	406,080	16,250	0.0400	0.9600	78.82
29.5	212,959	19,173	0.0900	0.9100	75.67
30.5	2,713,250	4,634	0.0017	0.9983	68.86
31.5	3,119,901	173,383	0.0556	0.9444	68.74
32.5	3,748,896	97,973	0.0261	0.9739	64.92
33.5	3,972,682	5,513	0.0014	0.9986	63.22
34.5	3,961,243	3,856	0.0010	0.9990	63.14
35.5	3,957,387	56	0.0000	1.0000	63.07
36.5	3,957,331	7,406	0.0019	0.9981	63.07
37.5	3,919,382		0.0000	1.0000	62.95
38.5	3,919,382	1,710	0.0004	0.9996	62.95

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 191 of 317

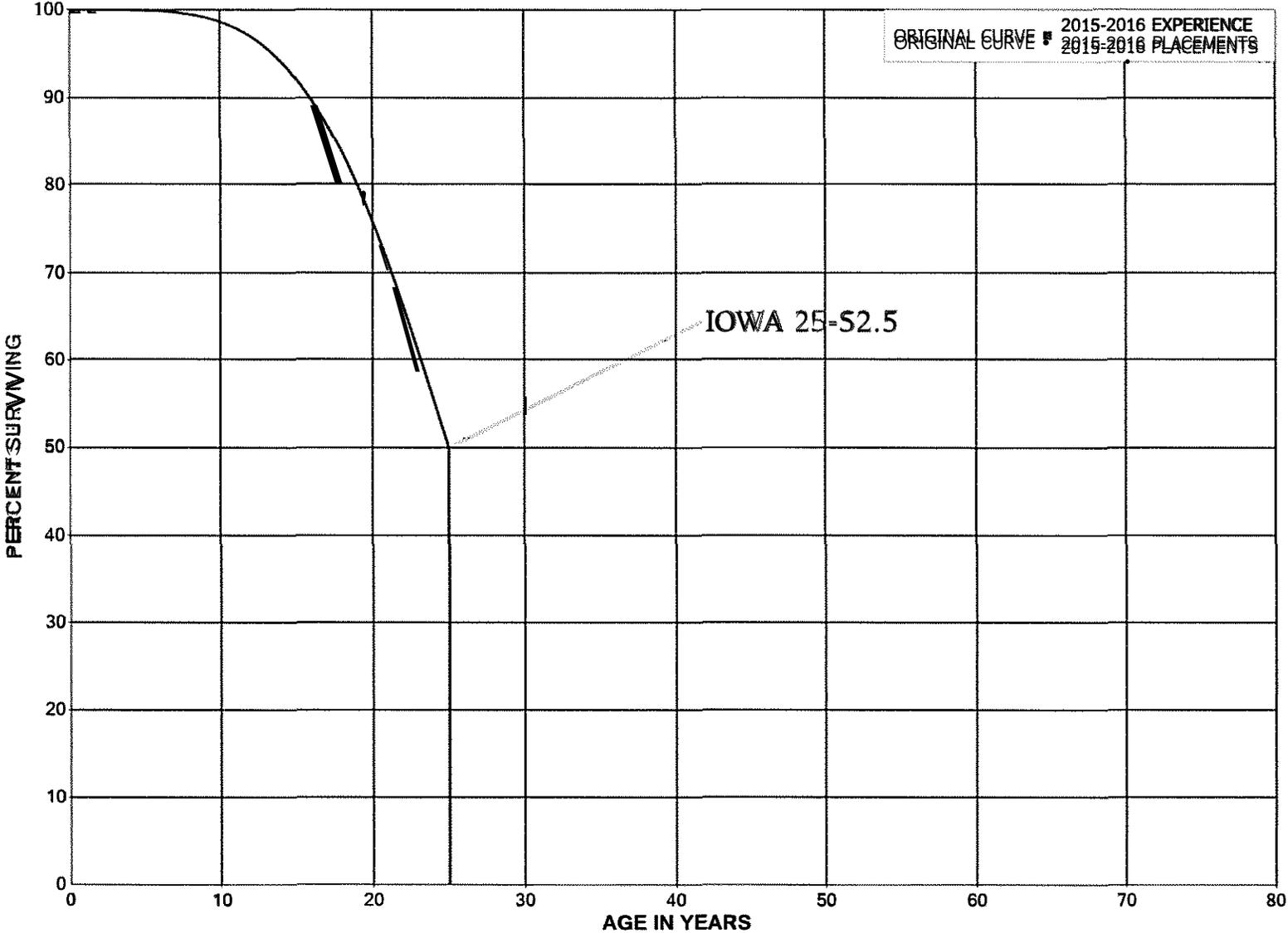
DUKE ENERGY PROGRESS

ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2016			EXPERIENCE BAND 2002-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	3,912,967	85,567	0.0219	0.9781	62.93	
40.5	3,827,400	52,861	0.0138	0.9862	61.55	
41.5	2,821,517	119,398	0.0423	0.9577	60.70	
42.5	2,702,119	110,246	0.0408	0.9592	58.13	
43.5	2,591,873	80,862	0.0312	0.9688	55.76	
44.5	2,003,154		0.0000	1.0000	54.02	
45.5	692,568		0.0000	1.0000	54.02	
46.5	477,947		0.0000	1.0000	54.02	
47.5	84,807		0.0000	1.0000	54.02	
48.5					54.02	

DUKE ENERGY PROGRESS
ACCOUNT 345.1 ACCESSORY ELECTRIC EQUIPMENT - SOLAR
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

ML-130

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 345.1 ACCESSORY ELECTRIC EQUIPMENT - SOLAR

ORIGINAL LIFE TABLE

PLACEMENT BAND 2015-2016

EXPERIENCE BAND 2015-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,686,715		0.0000	1.0000	100.00
0.5	4,047,631		0.0000	1.0000	100.00
1.5					100.00

DUKE ENERGY PROGRESS

ACCOUNT 346 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1968-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	43,982,165	250	0.0000	1.0000	100.00
0.5	40,422,441		0.0000	1.0000	100.00
1.5	39,401,541		0.0000	1.0000	100.00
2.5	38,573,762		0.0000	1.0000	100.00
3.5	31,396,199		0.0000	1.0000	100.00
4.5	22,702,041	15,854	0.0007	0.9993	100.00
5.5	14,615,087	23,239	0.0016	0.9984	99.93
6.5	12,699,973	59,224	0.0047	0.9953	99.77
7.5	11,202,903		0.0000	1.0000	99.31
8.5	11,223,697	62,793	0.0056	0.9944	99.31
9.5	10,668,326	18,600	0.0017	0.9983	98.75
10.5	10,363,803	38,924	0.0038	0.9962	98.58
11.5	10,227,252	44,463	0.0043	0.9957	98.21
12.5	10,050,478	430	0.0000	1.0000	97.78
13.5	9,853,249	970,691	0.0985	0.9015	97.78
14.5	6,032,167	1,109	0.0002	0.9998	88.14
15.5	4,159,992	5,242	0.0013	0.9987	88.13
16.5	1,411,811		0.0000	1.0000	88.02
17.5	1,141,879	32,955	0.0289	0.9711	88.02
18.5	971,518	1,892	0.0019	0.9981	85.48
19.5	1,242,405	88,903	0.0716	0.9284	85.31
20.5	1,131,281	44,644	0.0395	0.9605	79.21
21.5	1,064,778	22,986	0.0216	0.9784	76.08
22.5	896,845	11,479	0.0128	0.9872	74.44
23.5	877,795	4,946	0.0056	0.9944	73.48
24.5	729,793	39,854	0.0546	0.9454	73.07
25.5	707,964	5,297	0.0075	0.9925	69.08
26.5	696,233	1,657	0.0024	0.9976	68.56
27.5	711,968	5,978	0.0084	0.9916	68.40
28.5	720,934	49,922	0.0692	0.9308	67.83
29.5	658,775	12,227	0.0186	0.9814	63.13
30.5	635,263	1,512	0.0024	0.9976	61.96
31.5	659,253	37,859	0.0574	0.9426	61.81
32.5	598,409	8,989	0.0150	0.9850	58.26
33.5	608,885	45,273	0.0744	0.9256	57.39
34.5	549,406	40,186	0.0731	0.9269	53.12
35.5	503,996	3,891	0.0077	0.9923	49.23
36.5	500,111	5,551	0.0111	0.9889	48.85
37.5	491,521	6,472	0.0132	0.9868	48.31
38.5	485,081		0.0000	1.0000	47.67

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 196 of 317

DUKE ENERGY PROGRESS

ACCOUNT 346 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016

EXPERIENCE BAND 1968-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	487,159	2,530	0.0052	0.9948	47.67
40.5	480,634	392,316	0.8162	0.1838	47.43
41.5	81,454	38,593	0.4738	0.5262	8.71
42.5	43,043	2,882	0.0669	0.9331	4.59
43.5	39,979	758	0.0190	0.9810	4.28
44.5	26,822	10,235	0.3816	0.6184	4.20
45.5	14,091	7,317	0.5193	0.4807	2.60
46.5	6,774	4,000	0.5905	0.4095	1.25
47.5	2,774	2,468	0.8896	0.1104	0.51
48.5	306	306	1.0000		0.06
49.5					
50.5					
51.5					
52.5					
53.5					
54.5					
55.5					
56.5					
57.5					
58.5					
59.5					
60.5					
61.5					
62.5					
63.5					
64.5					
65.5					
66.5					
67.5					
68.5					
69.5					
70.5					
71.5					
72.5					
73.5					
74.5					
75.5					
76.5					
77.5					
78.5					

DUKE ENERGY PROGRESS

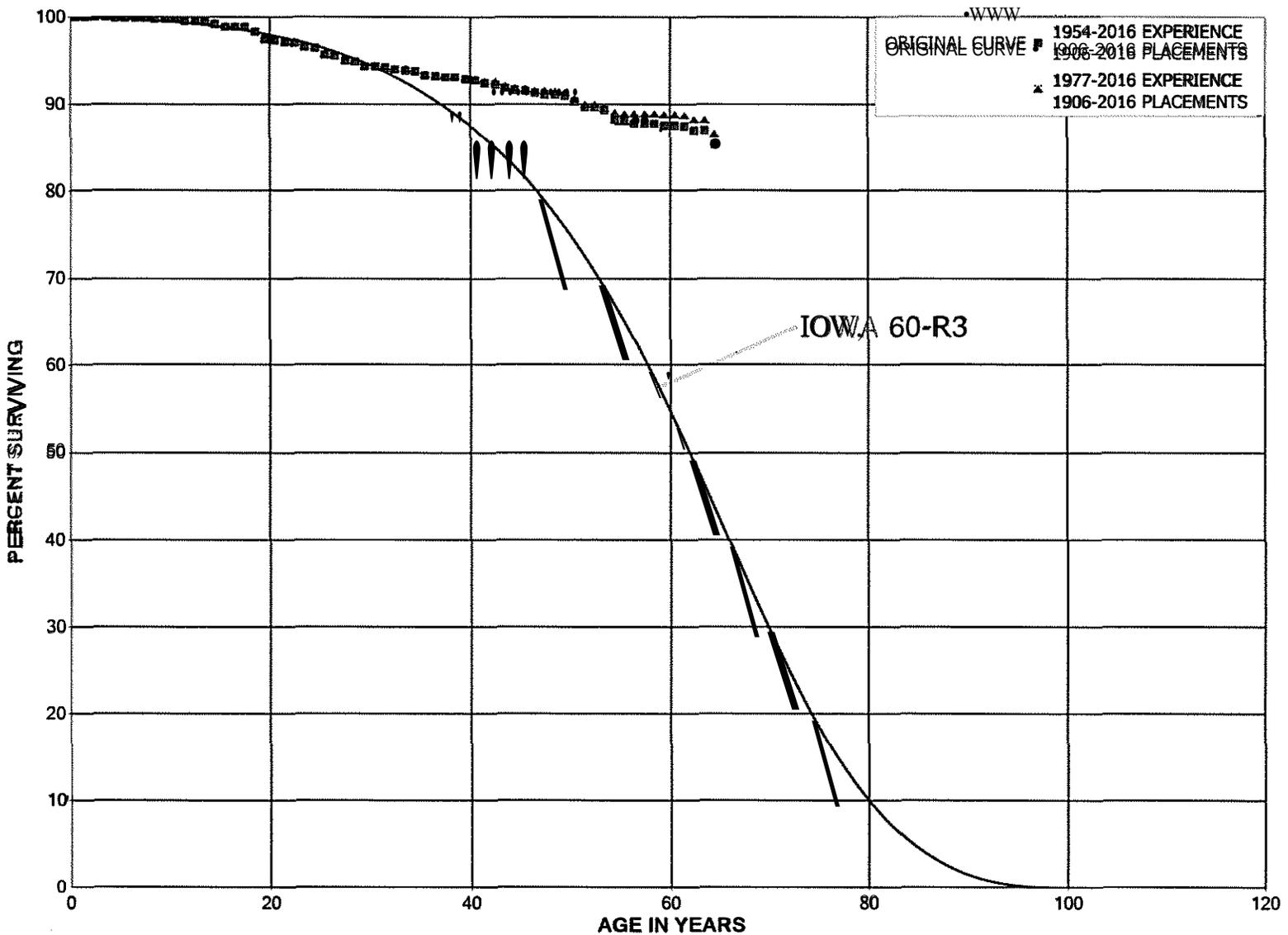
ACCOUNT 346 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1923-2016		EXPERIENCE BAND 1968-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5					
80.5					
81.5					
82.5					
83.5					
84.5					
85.5					
86.5					
87.5					
88.5					
89.5	4,590		0.0000		
90.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 198 of 317

DUKE ENERGY PROGRESS
ACCOUNT 352 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1906-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	93,690,571	47,289	0.0005	0.9995	100.00
0.5	84,849,607	4,641	0.0001	0.9999	99.95
1.5	74,453,169	2,251	0.0000	1.0000	99.94
2.5	74,320,571	10,246	0.0001	0.9999	99.94
3.5	74,497,390	30,374	0.0004	0.9996	99.93
4.5	73,011,752	4,349	0.0001	0.9999	99.89
5.5	71,884,941	3,944	0.0001	0.9999	99.88
6.5	71,592,829	53,956	0.0008	0.9992	99.88
7.5	60,978,222	22,828	0.0004	0.9996	99.80
8.5	60,584,817	24,063	0.0004	0.9996	99.76
9.5	59,625,022	20,719	0.0003	0.9997	99.72
10.5	58,376,046	113,929	0.0020	0.9980	99.69
11.5	57,041,679	23,373	0.0004	0.9996	99.49
12.5	54,212,282	54,971	0.0010	0.9990	99.45
13.5	52,879,265	84,378	0.0016	0.9984	99.35
14.5	50,477,860	174,837	0.0035	0.9965	99.19
15.5	48,082,623	13,548	0.0003	0.9997	98.85
16.5	44,382,005	15,210	0.0003	0.9997	98.82
17.5	42,010,808	225,472	0.0054	0.9946	98.79
18.5	41,106,068	352,297	0.0086	0.9914	98.26
19.5	39,498,877	60,108	0.0015	0.9985	97.42
20.5	36,100,035	64,525	0.0018	0.9982	97.27
21.5	32,851,282	54,538	0.0017	0.9983	97.09
22.5	32,185,487	132,161	0.0041	0.9959	96.93
23.5	30,494,963	49,742	0.0016	0.9984	96.53
24.5	29,470,431	234,749	0.0080	0.9920	96.38
25.5	28,927,884	38,053	0.0013	0.9987	95.61
26.5	27,500,583	158,023	0.0057	0.9943	95.48
27.5	22,115,958	20,415	0.0009	0.9991	94.93
28.5	20,570,353	112,081	0.0054	0.9946	94.85
29.5	18,136,353	13,708	0.0008	0.9992	94.33
30.5	17,543,122	16,987	0.0010	0.9990	94.26
31.5	16,716,084	41,270	0.0025	0.9975	94.17
32.5	15,888,114	10,113	0.0006	0.9994	93.94
33.5	11,918,789	18,604	0.0016	0.9984	93.88
34.5	10,570,231	51,097	0.0048	0.9952	93.73
35.5	9,664,116	6,035	0.0006	0.9994	93.28
36.5	9,392,778	14,479	0.0015	0.9985	93.22
37.5	6,596,967	961	0.0001	0.9999	93.07
38.5	5,524,881	14,903	0.0027	0.9973	93.06

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 200 of 317

DUKE ENERGY PROGRESS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1906-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,770,706	5,256	0.0011	0.9989	92.81
40.5	4,271,585	16,480	0.0039	0.9961	92.71
41.5	3,895,404	5,560	0.0014	0.9986	92.35
42.5	2,657,146	9,960	0.0037	0.9963	92.22
43.5	2,359,506	7,149	0.0030	0.9970	91.87
44.5	1,874,186	1,632	0.0009	0.9991	91.59
45.5	1,667,777 6	4,154	0.0025	0.9975	91.51
46.5	1,642,799 6	3,066	0.0019	0.9981	91.29
47.5	1,628,485	1,095	0.0007	0.9993	91.12
48.5	1,451,488	2,084	0.0014	0.9986	91.05
49.5	1,319,478	9,473	0.0072	0.9928	90.92
50.5	1,221,779 4	8,213	0.0067	0.9933	90.27
51.5	1,163,271	550	0.0005	0.9995	89.66
52.5	1,139,526	4,530	0.0040	0.9960	89.62
53.5	1,117,594	13,382	0.0120	0.9880	89.26
54.5	1,091,761	1,404	0.0013	0.9987	88.19
55.5	1,084,632	3,825	0.0035	0.9965	88.08
56.5	1,075,663	9	0.0000	1.0000	87.77
57.5	1,075,060	461	0.0004	0.9996	87.77
58.5	1,058,485	2,247	0.0021	0.9979	87.73
59.5	1,028,903	590	0.0006	0.9994	87.55
60.5	1,002,403	667	0.0007	0.9993	87.50
61.5	998,114	5,150	0.0052	0.9948	87.44
62.5	980,496	4	0.0000	1.0000	86.99
63.5	964,259	18,137	0.0188	0.9812	86.99
64.5	915,388	77	0.0001	0.9999	85.35
65.5	911,992	638	0.0007	0.9993	85.34
66.5	890,194	177	0.0002	0.9998	85.28
67.5	789,167	17	0.0000	1.0000	85.27
68.5	786,219	2,232	0.0028	0.9972	85.26
69.5	606,579	26	0.0000	1.0000	85.02
70.5	602,025	2	0.0000	1.0000	85.02
71.5	600,181	1,898	0.0032	0.9968	85.02
72.5	598,283	86	0.0001	0.9999	84.75
73.5	598,197	1,257	0.0021	0.9979	84.74
74.5	596,390	2,315	0.0039	0.9961	84.56
75.5	568,969	1,640	0.0029	0.9971	84.23
76.5	567,288		0.0000	1.0000	83.99
77.5	567,288	1,884	0.0033	0.9967	83.99
78.5	556,512	1	0.0000	1.0000	83.71

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 201 of 317

DUKE ENERGY PROGRESS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1906-2016			EXPERIENCE BAND 1954-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	506,295	292	0.0006	0.9994	83.71	
80.5	263,776	115	0.0004	0.9996	83.66	
81.5	263,661		0.0000	1.0000	83.62	
82.5	263,661	56	0.0002	0.9998	83.62	
83.5	263,605	546	0.0021	0.9979	83.61	
84.5	263,059		0.0000	1.0000	83.43	
85.5	256,435	97	0.0004	0.9996	83.43	
86.5	228,772		0.0000	1.0000	83.40	
87.5	228,772		0.0000	1.0000	83.40	
88.5	151,589		0.0000	1.0000	83.40	
89.5	107,120		0.0000	1.0000	83.40	
90.5	104,811	6	0.0001	0.9999	83.40	
91.5	60,492		0.0000	1.0000	83.40	
92.5	38,964	2	0.0001	0.9999	83.40	
93.5					83.39	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 202 of 317

DUKE ENERGY PROGRESS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1906-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	90,200,422	45,261	0.0005	0.9995	100.00
0.5	81,798,569	4,641	0.0001	0.9999	99.95
1.5	71,857,230	2,251	0.0000	1.0000	99.94
2.5	72,435,932	10,135	0.0001	0.9999	99.94
3.5	72,960,140	25,244	0.0003	0.9997	99.93
4.5	71,706,773	3,775	0.0001	0.9999	99.89
5.5	70,848,455	3,739	0.0001	0.9999	99.89
6.5	70,394,201	52,791	0.0007	0.9993	99.88
7.5	59,792,774	18,952	0.0003	0.9997	99.81
8.5	59,587,917	23,558	0.0004	0.9996	99.78
9.5	58,771,798	20,158	0.0003	0.9997	99.74
10.5	57,624,003	112,669	0.0020	0.9980	99.70
11.5	56,355,221	22,098	0.0004	0.9996	99.51
12.5	53,527,685	54,551	0.0010	0.9990	99.47
13.5	52,212,629	84,378	0.0016	0.9984	99.37
14.5	49,814,189	174,551	0.0035	0.9965	99.21
15.5	47,417,952	13,548	0.0003	0.9997	98.86
16.5	43,669,873	15,210	0.0003	0.9997	98.83
17.5	41,148,888	225,246	0.0055	0.9945	98.80
18.5	40,261,776	352,097	0.0087	0.9913	98.25
19.5	38,682,979	57,706	0.0015	0.9985	97.40
20.5	35,313,759	62,251	0.0018	0.9982	97.25
21.5	32,071,552	52,882	0.0016	0.9984	97.08
22.5	31,413,250	132,161	0.0042	0.9958	96.92
23.5	29,702,841	49,741	0.0017	0.9983	96.51
24.5	28,728,301	234,346	0.0082	0.9918	96.35
25.5	28,111,292	37,894	0.0013	0.9987	95.56
26.5	26,663,394	158,023	0.0059	0.9941	95.43
27.5	21,396,286	20,415	0.0010	0.9990	94.87
28.5	19,806,831	97,146	0.0049	0.9951	94.78
29.5	17,533,340	13,648	0.0008	0.9992	94.31
30.5	16,904,255	16,987	0.0010	0.9990	94.24
31.5	16,079,014	34,020	0.0021	0.9979	94.15
32.5	15,258,298	6,654	0.0004	0.9996	93.95
33.5	11,293,822	18,604	0.0016	0.9984	93.91
34.5	9,946,485	50,997	0.0051	0.9949	93.75
35.5	9,070,689	6,035	0.0007	0.9993	93.27
36.5	8,799,394	14,479	0.0016	0.9984	93.21
37.5	6,003,527	686	0.0001	0.9999	93.05
38.5	4,940,608	10,905	0.0022	0.9978	93.04

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 203 of 317

DUKE ENERGY PROGRESS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1906-2016			EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	4,241,647	5,256	0.0012	0.9988	92.84	
40.5	3,976,319	10,916	0.0027	0.9973	92.72	
41.5	3,605,703	3,676	0.0010	0.9990	92.47	
42.5	2,369,329	9,712	0.0041	0.9959	92.37	
43.5	2,071,937	7,149	0.0035	0.9965	92.00	
44.5	1,586,619	932	0.0006	0.9994	91.68	
45.5	1,382,959	4,104	0.0030	0.9970	91.62	
46.5	1,388,223	27	0.0000	1.0000	91.35	
47.5	1,376,888	1,095	0.0008	0.9992	91.35	
48.5	1,280,174	1,908	0.0015	0.9985	91.28	
49.5	1,188,528	8,978	0.0075	0.9925	91.14	
50.5	1,094,733	7,613	0.0070	0.9930	90.46	
51.5	1,088,264	55	0.0001	0.9999	89.83	
52.5	1,087,093	4,530	0.0042	0.9958	89.82	
53.5	1,105,896	7,382	0.0067	0.9933	89.45	
54.5	1,086,064	1,404	0.0013	0.9987	88.85	
55.5	1,078,935	786	0.0007	0.9993	88.74	
56.5	1,073,005	9	0.0000	1.0000	88.67	
57.5	1,072,408		0.0000	1.0000	88.67	
58.5	1,056,409	409	0.0004	0.9996	88.67	
59.5	1,028,665	590	0.0006	0.9994	88.64	
60.5	1,002,221	667	0.0007	0.9993	88.59	
61.5	997,932	5,150	0.0052	0.9948	88.53	
62.5	980,315	4	0.0000	1.0000	88.07	
63.5	964,174	18,137	0.0188	0.9812	88.07	
64.5	915,304	1	0.0000	1.0000	86.41	
65.5	911,983	638	0.0007	0.9993	86.41	
66.5	890,185	177	0.0002	0.9998	86.35	
67.5	789,159	17	0.0000	1.0000	86.34	
68.5	786,217	2,232	0.0028	0.9972	86.33	
69.5	606,576	26	0.0000	1.0000	86.09	
70.5	602,025	2	0.0000	1.0000	86.09	
71.5	600,181	1,898	0.0032	0.9968	86.08	
72.5	598,283	86	0.0001	0.9999	85.81	
73.5	598,197	1,257	0.0021	0.9979	85.80	
74.5	596,390	2,315	0.0039	0.9961	85.62	
75.5	568,969	1,640	0.0029	0.9971	85.29	
76.5	567,288		0.0000	1.0000	85.04	
77.5	567,288	1,884	0.0033	0.9967	85.04	
78.5	556,512	1	0.0000	1.0000	84.76	

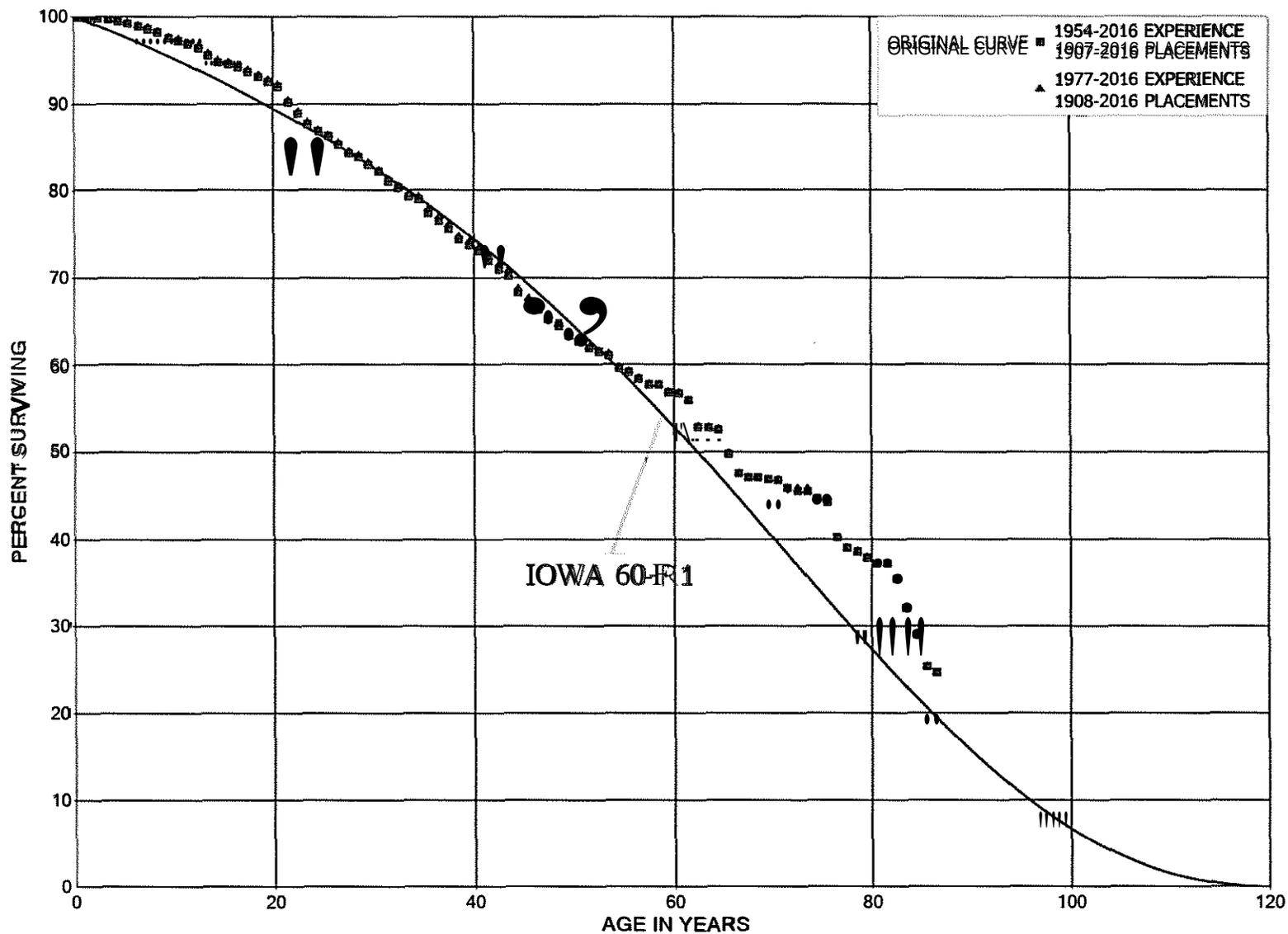
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 204 of 317

DUKE ENERGY PROGRESS
ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1906-2016			EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	506,295	292	0.0006	0.9994	84.76	
80.5	263,776	115	0.0004	0.9996	84.71	
81.5	263,661		0.0000	1.0000	84.67	
82.5	263,661	56	0.0002	0.9998	84.67	
83.5	263,605	546	0.0021	0.9979	84.66	
84.5	263,059		0.0000	1.0000	84.48	
85.5	256,435	97	0.0004	0.9996	84.48	
86.5	228,772		0.0000	1.0000	84.45	
87.5	228,772		0.0000	1.0000	84.45	
88.5	151,589		0.0000	1.0000	84.45	
89.5	107,120		0.0000	1.0000	84.45	
90.5	104,811	6	0.0001	0.9999	84.45	
91.5	60,492		0.0000	1.0000	84.44	
92.5	38,964	2	0.0001	0.9999	84.44	
93.5					84.44	

DUKE ENERGY PROGRESS
ACCOUNT 353 STATION EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS
ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1907-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,101,031,729	1,766,576	0.0016	0.9984	100.00
0.5	1,066,026,651	394,612	0.0004	0.9996	99.84
1.5	1,023,825,258	810,653	0.0008	0.9992	99.80
2.5	997,827,689	1,395,242	0.0014	0.9986	99.72
3.5	903,693,053	1,848,492	0.0020	0.9980	99.58
4.5	838,273,018	2,089,804	0.0025	0.9975	99.38
5.5	769,562,425	2,620,201	0.0034	0.9966	99.13
6.5	724,055,842	1,821,823	0.0025	0.9975	98.80
7.5	679,564,238	2,791,349	0.0041	0.9959	98.55
8.5	625,931,298	4,101,884	0.0066	0.9934	98.14
9.5	590,810,804	2,169,294	0.0037	0.9963	97.50
10.5	572,338,332	2,104,519	0.0037	0.9963	97.14
11.5	554,697,697	2,919,081	0.0053	0.9947	96.78
12.5	532,118,226	4,234,419	0.0080	0.9920	96.27
13.5	506,652,214	3,866,131	0.0076	0.9924	95.51
14.5	472,529,842	1,510,270	0.0032	0.9968	94.78
15.5	443,980,903	1,486,847	0.0033	0.9967	94.48
16.5	408,739,187	2,291,881	0.0056	0.9944	94.16
17.5	392,865,934	2,246,929	0.0057	0.9943	93.63
18.5	376,726,075	2,574,931	0.0068	0.9932	93.10
19.5	372,327,140	2,144,741	0.0058	0.9942	92.46
20.5	358,958,956	6,920,523	0.0193	0.9807	91.93
21.5	335,150,691	4,756,257	0.0142	0.9858	90.16
22.5	325,157,278	4,575,648	0.0141	0.9859	88.88
23.5	305,287,614	2,914,082	0.0095	0.9905	87.63
24.5	284,775,656	1,813,975	0.0064	0.9936	86.79
25.5	277,036,551	2,939,784	0.0106	0.9894	86.24
26.5	260,306,491	3,051,411	0.0117	0.9883	85.32
27.5	250,988,427	1,345,437	0.0054	0.9946	84.32
28.5	237,523,031	2,447,339	0.0103	0.9897	83.87
29.5	209,836,672	2,181,949	0.0104	0.9896	83.00
30.5	190,890,631	2,391,998	0.0125	0.9875	82.14
31.5	178,956,051	1,822,618	0.0102	0.9898	81.11
32.5	170,086,893	2,056,181	0.0121	0.9879	80.29
33.5	125,531,697	637,198	0.0051	0.9949	79.32
34.5	121,330,705	2,308,529	0.0190	0.9810	78.91
35.5	110,896,241	1,303,819	0.0118	0.9882	77.41
36.5	98,343,394	1,111,942	0.0113	0.9887	76.50
37.5	84,792,231	1,410,642	0.0166	0.9834	75.64
38.5	79,365,276	646,586	0.0081	0.9919	74.38

DUKE ENERGY PROGRESS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1907-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	67,441,214	677,760	0.0100	0.9900	73.77
40.5	62,160,089	920,051	0.0148	0.9852	73.03
41.5	56,266,811	807,658	0.0144	0.9856	71.95
42.5	49,791,426	500,960	0.0101	0.9899	70.92
43.5	43,058,812	1,206,085	0.0280	0.9720	70.20
44.5	35,732,629	536,038	0.0150	0.9850	68.24
45.5	28,884,962	363,080	0.0126	0.9874	67.21
46.5	24,591,751	386,068	0.0157	0.9843	66.37
47.5	22,655,461	273,206	0.0121	0.9879	65.33
48.5	18,809,073	332,121	0.0177	0.9823	64.54
49.5	15,589,727	164,046	0.0105	0.9895	63.40
50.5	13,394,591	164,300	0.0123	0.9877	62.73
51.5	12,116,395	91,500	0.0076	0.9924	61.96
52.5	11,634,359	72,673	0.0062	0.9938	61.49
53.5	11,353,346	275,694	0.0243	0.9757	61.11
54.5	10,140,733	84,234	0.0083	0.9917	59.63
55.5	10,009,539	122,018	0.0122	0.9878	59.13
56.5	8,894,342	106,710	0.0120	0.9880	58.41
57.5	8,687,245	5,940	0.0007	0.9993	57.71
58.5	8,056,474	111,159	0.0138	0.9862	57.67
59.5	7,925,898	25,786	0.0033	0.9967	56.87
60.5	6,981,999	96,209	0.0138	0.9862	56.69
61.5	6,829,623	373,982	0.0548	0.9452	55.91
62.5	5,957,112	12,612	0.0021	0.9979	52.85
63.5	5,852,684	21,309	0.0036	0.9964	52.73
64.5	4,527,575	241,350	0.0533	0.9467	52.54
65.5	3,509,558	157,983	0.0450	0.9550	49.74
66.5	3,007,776	27,588	0.0092	0.9908	47.50
67.5	2,152,929	30	0.0000	1.0000	47.07
68.5	2,141,036	11,230	0.0052	0.9948	47.07
69.5	1,813,373	2,341	0.0013	0.9987	46.82
70.5	1,809,158	35,343	0.0195	0.9805	46.76
71.5	1,773,308	12,178	0.0069	0.9931	45.85
72.5	1,760,880	2,480	0.0014	0.9986	45.53
73.5	1,747,729	31,892	0.0182	0.9818	45.47
74.5	1,497,032	13,842	0.0092	0.9908	44.64
75.5	1,421,265	129,644	0.0912	0.9088	44.22
76.5	1,264,491	38,913	0.0308	0.9692	40.19
77.5	1,220,339	13,120	0.0108	0.9892	38.95
78.5	1,185,557	20,163	0.0170	0.9830	38.53

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 208 of 317

DUKE ENERGY PROGRESS
ACCOUNT 353 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1907-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,154,707	21,894	0.0190	0.9810	37.88
80.5	997,600	579	0.0006	0.9994	37.16
81.5	979,903	46,924	0.0479	0.9521	37.14
82.5	892,781	83,855	0.0939	0.9061	35.36
83.5	808,582	77,171	0.0954	0.9046	32.04
84.5	731,411	92,524	0.1265	0.8735	28.98
85.5	636,697	17,149	0.0269	0.9731	25.32
86.5	541,326	90	0.0002	0.9998	24.63
87.5	527,983	26	0.0000	1.0000	24.63
88.5	259,841	1,258	0.0048	0.9952	24.63
89.5	236,165	338	0.0014	0.9986	24.51
90.5	220,914	37	0.0002	0.9998	24.47
91.5	130,267	960	0.0074	0.9926	24.47
92.5	127,956		0.0000	1.0000	24.29
93.5	119,793		0.0000	1.0000	24.29
94.5	32,067		0.0000	1.0000	24.29
95.5	30,047		0.0000	1.0000	24.29
96.5	30,047		0.0000	1.0000	24.29
97.5	30,047		0.0000	1.0000	24.29
98.5	29,238		0.0000	1.0000	24.29
99.5	29,238		0.0000	1.0000	24.29
100.5	29,238		0.0000	1.0000	24.29
101.5	28,767		0.0000	1.0000	24.29
102.5	28,767		0.0000	1.0000	24.29
103.5	28,767		0.0000	1.0000	24.29
104.5	24,805		0.0000	1.0000	24.29
105.5	24,805		0.0000	1.0000	24.29
106.5	15,208		0.0000	1.0000	24.29
107.5					24.29

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 209 of 317

DUKE ENERGY PROGRESS
ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,014,012,199	895,137	0.0009	0.9991	100.00
0.5	981,555,806	356,137	0.0004	0.9996	99.91
1.5	950,059,828	708,997	0.0007	0.9993	99.88
2.5	932,587,278	1,269,353	0.0014	0.9986	99.80
3.5	847,005,484	978,866	0.0012	0.9988	99.67
4.5	791,349,708	1,984,377	0.0025	0.9975	99.55
5.5	730,745,817	2,470,838	0.0034	0.9966	99.30
6.5	689,792,535	1,686,721	0.0024	0.9976	98.96
7.5	647,708,732	2,634,819	0.0041	0.9959	98.72
8.5	600,047,376	4,004,880	0.0067	0.9933	98.32
9.5	569,352,878	1,865,234	0.0033	0.9967	97.66
10.5	554,479,206	1,984,996	0.0036	0.9964	97.34
11.5	538,966,211	2,781,413	0.0052	0.9948	97.00
12.5	517,270,512	4,162,989	0.0080	0.9920	96.50
13.5	492,253,249	3,707,349	0.0075	0.9925	95.72
14.5	459,393,943	1,486,402	0.0032	0.9968	95.00
15.5	431,182,910	1,447,283	0.0034	0.9966	94.69
16.5	397,853,983	2,125,299	0.0053	0.9947	94.37
17.5	382,837,002	2,176,435	0.0057	0.9943	93.87
18.5	367,729,076	2,525,436	0.0069	0.9931	93.34
19.5	363,523,193	2,119,566	0.0058	0.9942	92.69
20.5	351,198,589	6,853,204	0.0195	0.9805	92.15
21.5	327,809,996	4,697,926	0.0143	0.9857	90.36
22.5	318,644,897	4,568,000	0.0143	0.9857	89.06
23.5	298,684,491	2,860,477	0.0096	0.9904	87.78
24.5	279,550,126	1,792,861	0.0064	0.9936	86.94
25.5	271,586,297	2,866,209	0.0106	0.9894	86.39
26.5	255,214,448	2,985,763	0.0117	0.9883	85.47
27.5	247,029,071	1,315,980	0.0053	0.9947	84.47
28.5	233,427,143	2,410,335	0.0103	0.9897	84.02
29.5	205,970,173	2,075,211	0.0101	0.9899	83.16
30.5	186,978,981	2,317,370	0.0124	0.9876	82.32
31.5	175,000,865	1,756,090	0.0100	0.9900	81.30
32.5	166,192,237	2,015,340	0.0121	0.9879	80.48
33.5	121,767,128	381,426	0.0031	0.9969	79.51
34.5	118,082,248	2,143,062	0.0181	0.9819	79.26
35.5	107,870,040	1,216,003	0.0113	0.9887	77.82
36.5	95,459,779	1,096,444	0.0115	0.9885	76.94
37.5	81,931,833	1,387,607	0.0169	0.9831	76.06
38.5	76,557,726	595,211	0.0078	0.9922	74.77

DUKE ENERGY PROGRESS
ACCOUNT 353 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	64,723,032	627,836	0.0097	0.9903	74.19
40.5	59,658,396	855,949	0.0143	0.9857	73.47
41.5	53,842,469	684,245	0.0127	0.9873	72.41
42.5	47,581,769	453,818	0.0095	0.9905	71.49
43.5	40,900,464	1,205,167	0.0295	0.9705	70.81
44.5	33,561,764	536,038	0.0160	0.9840	68.73
45.5	26,728,688	362,869	0.0136	0.9864	67.63
46.5	22,622,888	379,818	0.0168	0.9832	66.71
47.5	20,872,643	270,233	0.0129	0.9871	65.59
48.5	18,096,490	314,767	0.0174	0.9826	64.74
49.5	15,033,413	164,046	0.0109	0.9891	63.62
50.5	12,873,480	164,300	0.0128	0.9872	62.92
51.5	11,786,410	91,500	0.0078	0.9922	62.12
52.5	11,465,264	72,088	0.0063	0.9937	61.64
53.5	11,212,686	275,694	0.0246	0.9754	61.25
54.5	10,089,307	84,234	0.0083	0.9917	59.74
55.5	9,960,793	122,018	0.0122	0.9878	59.24
56.5	8,845,716	106,710	0.0121	0.9879	58.52
57.5	8,652,694	5,940	0.0007	0.9993	57.81
58.5	8,022,770	110,769	0.0138	0.9862	57.77
59.5	7,893,675	25,786	0.0033	0.9967	56.97
60.5	6,949,807	96,209	0.0138	0.9862	56.79
61.5	6,799,824	373,982	0.0550	0.9450	56.00
62.5	5,927,803	12,612	0.0021	0.9979	52.92
63.5	5,823,425	21,309	0.0037	0.9963	52.81
64.5	4,502,368	241,350	0.0536	0.9464	52.62
65.5	3,484,377	157,983	0.0453	0.9547	49.80
66.5	2,992,193	27,588	0.0092	0.9908	47.54
67.5	2,152,892	30	0.0000	1.0000	47.10
68.5	2,141,036	11,230	0.0052	0.9948	47.10
69.5	1,813,373	2,341	0.0013	0.9987	46.85
70.5	1,809,158	35,343	0.0195	0.9805	46.79
71.5	1,773,308	12,178	0.0069	0.9931	45.88
72.5	1,760,880	2,480	0.0014	0.9986	45.56
73.5	1,747,729	31,892	0.0182	0.9818	45.50
74.5	1,497,032	13,842	0.0092	0.9908	44.67
75.5	1,421,265	129,644	0.0912	0.9088	44.25
76.5	1,264,491	38,913	0.0308	0.9692	40.22
77.5	1,220,339	13,120	0.0108	0.9892	38.98
78.5	1,185,557	20,163	0.0170	0.9830	38.56

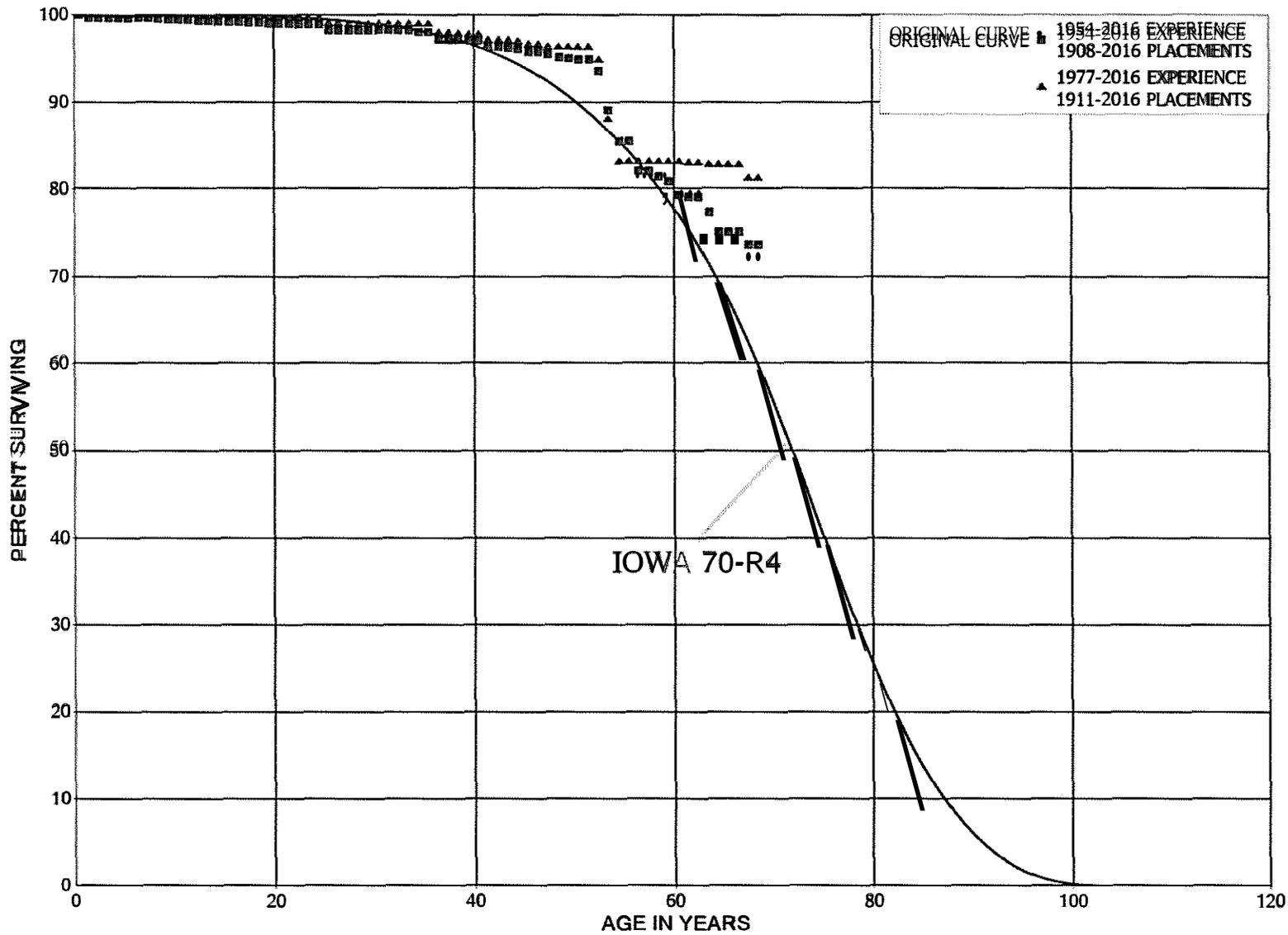
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 211 of 317

DUKE ENERGY PROGRESS
ACCOUNT 353 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,154,707	21,894	0.0190	0.9810	37.91
80.5	997,600	579	0.0006	0.9994	37.19
81.5	979,903	46,924	0.0479	0.9521	37.17
82.5	892,781	83,855	0.0939	0.9061	35.39
83.5	808,582	77,171	0.0954	0.9046	32.06
84.5	731,411	92,524	0.1265	0.8735	29.00
85.5	636,697	17,149	0.0269	0.9731	25.33
86.5	541,326	90	0.0002	0.9998	24.65
87.5	527,983	26	0.0000	1.0000	24.65
88.5	259,841	1,258	0.0048	0.9952	24.65
89.5	236,165	338	0.0014	0.9986	24.53
90.5	220,914	37	0.0002	0.9998	24.49
91.5	130,267	960	0.0074	0.9926	24.49
92.5	127,956		0.0000	1.0000	24.31
93.5	119,793		0.0000	1.0000	24.31
94.5	32,067		0.0000	1.0000	24.31
95.5	30,047		0.0000	1.0000	24.31
96.5	30,047		0.0000	1.0000	24.31
97.5	30,047		0.0000	1.0000	24.31
98.5	29,238		0.0000	1.0000	24.31
99.5	29,238		0.0000	1.0000	24.31
100.5	29,238		0.0000	1.0000	24.31
101.5	28,767		0.0000	1.0000	24.31
102.5	28,767		0.0000	1.0000	24.31
103.5	28,767		0.0000	1.0000	24.31
104.5	24,805		0.0000	1.0000	24.31
105.5	24,805		0.0000	1.0000	24.31
106.5	15,208		0.0000	1.0000	24.31
107.5					24.31

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 212 of 317

DUKE ENERGY PROGRESS
ACCOUNT 354 TOWERS AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	65,175,626	982	0.0000	1.0000	100.00
0.5	61,407,392	215,189	0.0035	0.9965	100.00
1.5	61,097,752		0.0000	1.0000	99.65
2.5	60,587,181		0.0000	1.0000	99.65
3.5	58,847,921		0.0000	1.0000	99.65
4.5	58,678,182	25,286	0.0004	0.9996	99.65
5.5	58,632,174	3,528	0.0001	0.9999	99.61
6.5	58,628,672	19,498	0.0003	0.9997	99.60
7.5	58,162,612	46,013	0.0008	0.9992	99.57
8.5	56,263,359	39,008	0.0007	0.9993	99.49
9.5	56,154,220	24,550	0.0004	0.9996	99.42
10.5	56,059,447	13,346	0.0002	0.9998	99.37
11.5	56,109,325	42,334	0.0008	0.9992	99.35
12.5	56,386,576	15	0.0000	1.0000	99.28
13.5	56,253,913	43,547	0.0008	0.9992	99.28
14.5	56,250,575	13,380	0.0002	0.9998	99.20
15.5	56,421,557	13,113	0.0002	0.9998	99.18
16.5	56,450,301	20,508	0.0004	0.9996	99.15
17.5	56,561,784	24,539	0.0004	0.9996	99.12
18.5	56,557,467	38,417	0.0007	0.9993	99.07
19.5	56,446,458	29,957	0.0005	0.9995	99.01
20.5	56,218,892	30,679	0.0005	0.9995	98.95
21.5	56,369,066	30,934	0.0005	0.9995	98.90
22.5	56,334,395	28,075	0.0005	0.9995	98.85
23.5	56,205,347	7,213	0.0001	0.9999	98.80
24.5	52,306,141	298,043	0.0057	0.9943	98.78
25.5	52,007,654	7,725	0.0001	0.9999	98.22
26.5	52,274,139	15,543	0.0003	0.9997	98.21
27.5	52,655,189	242	0.0000	1.0000	98.18
28.5	52,864,065	990	0.0000	1.0000	98.18
29.5	52,874,454	3,065	0.0001	0.9999	98.17
30.5	53,126,802	126	0.0000	1.0000	98.17
31.5	40,567,499		0.0000	1.0000	98.17
32.5	40,428,573	18,789	0.0005	0.9995	98.17
33.5	29,663,472	34,423	0.0012	0.9988	98.12
34.5	18,143,421	4,921	0.0003	0.9997	98.01
35.5	17,964,727	153,778	0.0086	0.9914	97.98
36.5	17,762,783	16,350	0.0009	0.9991	97.14
37.5	17,745,274	4,347	0.0002	0.9998	97.05
38.5	17,707,572	18,303	0.0010	0.9990	97.03

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 214 of 317

DUKE ENERGY PROGRESS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	16,996,049	3,059	0.0002	0.9998	96.93
40.5	16,545,289	98,941	0.0060	0.9940	96.91
41.5	13,665,508	11,630	0.0009	0.9991	96.33
42.5	13,789,705	4,206	0.0003	0.9997	96.25
43.5	13,211,878	14,078	0.0011	0.9989	96.22
44.5	9,514,393	41,614	0.0044	0.9956	96.12
45.5	8,509,176	1,693	0.0002	0.9998	95.70
46.5	8,490,211	13,361	0.0016	0.9984	95.68
47.5	8,051,888	36,339	0.0045	0.9955	95.53
48.5	7,454,617	15,158	0.0020	0.9980	95.10
49.5	6,222,643	2,499	0.0004	0.9996	94.91
50.5	3,843,072	1,124	0.0003	0.9997	94.87
51.5	2,985,659	42,211	0.0141	0.9859	94.84
52.5	2,867,335	134,784	0.0470	0.9530	93.50
53.5	2,552,564	103,956	0.0407	0.9593	89.10
54.5	2,426,549		0.0000	1.0000	85.47
55.5	2,333,290	93,420	0.0400	0.9600	85.47
56.5	2,185,910		0.0000	1.0000	82.05
57.5	2,149,078	16,275	0.0076	0.9924	82.05
58.5	2,033,038	14,191	0.0070	0.9930	81.43
59.5	2,017,559	40,156	0.0199	0.9801	80.86
60.5	1,977,403	4,453	0.0023	0.9977	79.25
61.5	1,972,950	548	0.0003	0.9997	79.07
62.5	1,972,402	43,954	0.0223	0.9777	79.05
63.5	1,928,448	56,000	0.0290	0.9710	77.29
64.5	1,851,910	586	0.0003	0.9997	75.05
65.5	1,821,278		0.0000	1.0000	75.02
66.5	1,819,220	32,893	0.0181	0.9819	75.02
67.5	1,786,327	815	0.0005	0.9995	73.67
68.5	1,785,512	494	0.0003	0.9997	73.63
69.5	1,785,018	954	0.0005	0.9995	73.61
70.5	1,784,064		0.0000	1.0000	73.57
71.5	1,784,064	6	0.0000	1.0000	73.57
72.5	1,784,059	3,207	0.0018	0.9982	73.57
73.5	1,780,851		0.0000	1.0000	73.44
74.5	1,780,851		0.0000	1.0000	73.44
75.5	1,780,851		0.0000	1.0000	73.44
76.5	1,780,851	97,347	0.0547	0.9453	73.44
77.5	1,683,504	76,366	0.0454	0.9546	69.43
78.5	1,607,138	1,907	0.0012	0.9988	66.28

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 215 of 317

DUKE ENERGY PROGRESS
ACCOUNT 354 TOWERS AND FIXTURES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,556,489		0.0000	1.0000	66.20
80.5	1,556,489	13,973	0.0090	0.9910	66.20
81.5	1,542,516	1,147	0.0007	0.9993	65.60
82.5	1,541,369		0.0000	1.0000	65.55
83.5	1,541,369	10,707	0.0069	0.9931	65.55
84.5	1,530,662	20,966	0.0137	0.9863	65.10
85.5	1,509,696	7,981	0.0053	0.9947	64.21
86.5	1,498,618	4,128	0.0028	0.9972	63.87
87.5	1,161,015	28	0.0000	1.0000	63.69
88.5	1,160,987	2,423	0.0021	0.9979	63.69
89.5	882,500	5,473	0.0062	0.9938	63.56
90.5	793,652	379	0.0005	0.9995	63.16
91.5	671,139	2,329	0.0035	0.9965	63.13
92.5	663,564	379	0.0006	0.9994	62.91
93.5	398,438	189	0.0005	0.9995	62.88
94.5	115,132	4,136	0.0359	0.9641	62.85
95.5	110,996		0.0000	1.0000	60.59
96.5	110,996		0.0000	1.0000	60.59
97.5	69,711		0.0000	1.0000	60.59
98.5	69,711		0.0000	1.0000	60.59
99.5	69,711		0.0000	1.0000	60.59
100.5	69,711		0.0000	1.0000	60.59
101.5	13,842		0.0000	1.0000	60.59
102.5	13,842	190	0.0137	0.9863	60.59
103.5	13,652		0.0000	1.0000	59.76
104.5	13,652		0.0000	1.0000	59.76
105.5					59.76

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 216 of 317

DUKE ENERGY PROGRESS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1911-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	49,623,851		0.0000	1.0000	100.00
0.5	46,656,295		0.0000	1.0000	100.00
1.5	49,388,381		0.0000	1.0000	100.00
2.5	48,853,808		0.0000	1.0000	100.00
3.5	47,614,338		0.0000	1.0000	100.00
4.5	50,883,756		0.0000	1.0000	100.00
5.5	52,093,655		0.0000	1.0000	100.00
6.5	52,103,329		0.0000	1.0000	100.00
7.5	51,909,348		0.0000	1.0000	100.00
8.5	50,851,540	2,565	0.0001	0.9999	100.00
9.5	51,929,215	18,217	0.0004	0.9996	99.99
10.5	54,267,422		0.0000	1.0000	99.96
11.5	55,315,259	42,334	0.0008	0.9992	99.96
12.5	55,838,203		0.0000	1.0000	99.88
13.5	55,714,432	38,201	0.0007	0.9993	99.88
14.5	55,740,186	2,380	0.0000	1.0000	99.81
15.5	56,016,996	13,113	0.0002	0.9998	99.81
16.5	56,049,959	20,368	0.0004	0.9996	99.79
17.5	56,294,939	18,773	0.0003	0.9997	99.75
18.5	56,396,222	26,841	0.0005	0.9995	99.72
19.5	56,298,076	29,957	0.0005	0.9995	99.67
20.5	56,069,826	30,679	0.0005	0.9995	99.62
21.5	56,220,001	30,934	0.0006	0.9994	99.56
22.5	56,185,330	13,040	0.0002	0.9998	99.51
23.5	56,068,673	4,626	0.0001	0.9999	99.48
24.5	51,833,724	288,215	0.0056	0.9944	99.48
25.5	51,578,597	7,725	0.0001	0.9999	98.92
26.5	51,524,860	15,543	0.0003	0.9997	98.91
27.5	51,507,145		0.0000	1.0000	98.88
28.5	51,510,210	411	0.0000	1.0000	98.88
29.5	51,509,799	3,065	0.0001	0.9999	98.88
30.5	51,461,920	54	0.0000	1.0000	98.87
31.5	38,597,315		0.0000	1.0000	98.87
32.5	38,457,004	18,378	0.0005	0.9995	98.87
33.5	27,692,314	1,868	0.0001	0.9999	98.82
34.5	16,051,975		0.0000	1.0000	98.82
35.5	15,881,268	153,778	0.0097	0.9903	98.82
36.5	15,669,348	10,965	0.0007	0.9993	97.86
37.5	15,657,223	4,337	0.0003	0.9997	97.79
38.5	15,563,310	18,303	0.0012	0.9988	97.77

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 217 of 317

DUKE ENERGY PROGRESS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	14,900,486	614	0.0000	1.0000	97.65
40.5	14,451,946	95,245	0.0066	0.9934	97.65
41.5	11,522,392	11,630	0.0010	0.9990	97.00
42.5	11,493,165		0.0000	1.0000	96.91
43.5	10,918,659	12,509	0.0011	0.9989	96.91
44.5	7,195,553	25,328	0.0035	0.9965	96.79
45.5	6,198,686		0.0000	1.0000	96.45
46.5	6,185,333	10,447	0.0017	0.9983	96.45
47.5	6,108,260	5,132	0.0008	0.9992	96.29
48.5	5,472,493		0.0000	1.0000	96.21
49.5	4,637,966	1,066	0.0002	0.9998	96.21
50.5	2,623,897	597	0.0002	0.9998	96.19
51.5	1,975,632	28,581	0.0145	0.9855	96.17
52.5	1,881,906	134,464	0.0715	0.9285	94.77
53.5	1,835,463	103,611	0.0564	0.9436	88.00
54.5	2,015,017		0.0000	1.0000	83.04
55.5	1,921,758		0.0000	1.0000	83.04
56.5	1,867,798		0.0000	1.0000	83.04
57.5	1,876,386		0.0000	1.0000	83.04
58.5	1,776,621		0.0000	1.0000	83.04
59.5	1,775,333		0.0000	1.0000	83.04
60.5	1,775,333	2,561	0.0014	0.9986	83.04
61.5	1,828,682	548	0.0003	0.9997	82.92
62.5	1,828,134	3,954	0.0022	0.9978	82.89
63.5	1,824,180		0.0000	1.0000	82.71
64.5	1,815,536		0.0000	1.0000	82.71
65.5	1,821,278		0.0000	1.0000	82.71
66.5	1,819,220	32,893	0.0181	0.9819	82.71
67.5	1,786,327	815	0.0005	0.9995	81.22
68.5	1,785,512	494	0.0003	0.9997	81.18
69.5	1,785,018	954	0.0005	0.9995	81.16
70.5	1,784,064		0.0000	1.0000	81.11
71.5	1,784,064	6	0.0000	1.0000	81.11
72.5	1,784,059	3,207	0.0018	0.9982	81.11
73.5	1,780,851		0.0000	1.0000	80.97
74.5	1,780,851		0.0000	1.0000	80.97
75.5	1,780,851		0.0000	1.0000	80.97
76.5	1,780,851	97,347	0.0547	0.9453	80.97
77.5	1,683,504	76,366	0.0454	0.9546	76.54
78.5	1,607,138	1,907	0.0012	0.9988	73.07

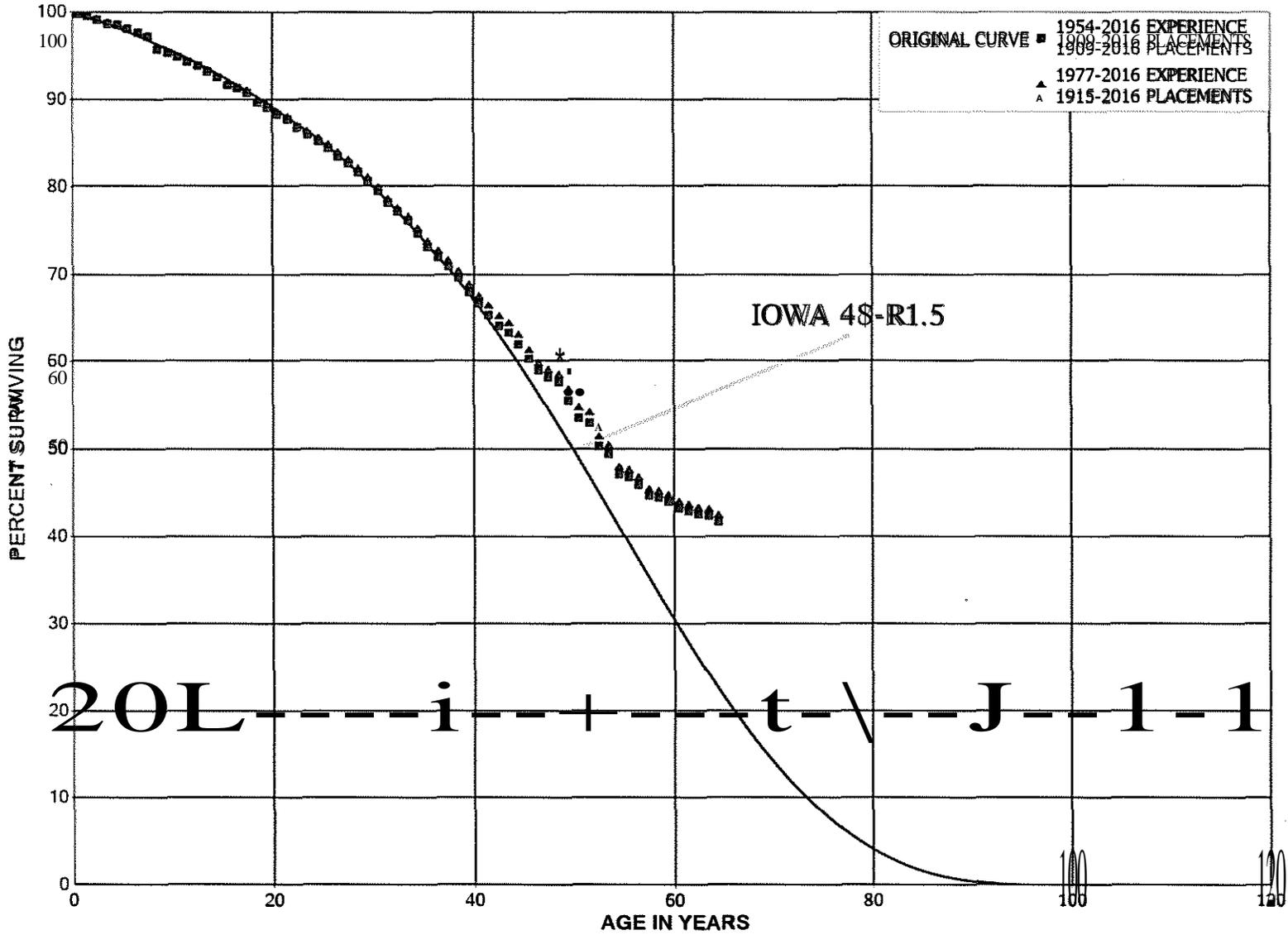
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 218 of 317

DUKE ENERGY PROGRESS
ACCOUNT 354 TOWERS AND FIXTURES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETIMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,556,489		0.0000	1.0000	72.98
80.5	1,556,489	13,973	0.0090	0.9910	72.98
81.5	1,542,516	1,147	0.0007	0.9993	72.33
82.5	1,541,369		0.0000	1.0000	72.27
83.5	1,541,369	10,707	0.0069	0.9931	72.27
84.5	1,530,662	20,966	0.0137	0.9863	71.77
85.5	1,509,696	7,981	0.0053	0.9947	70.79
86.5	1,498,618	4,128	0.0028	0.9972	70.41
87.5	1,161,015	28	0.0000	1.0000	70.22
88.5	1,160,987	2,423	0.0021	0.9979	70.22
89.5	882,500	5,473	0.0062	0.9938	70.07
90.5	793,652	379	0.0005	0.9995	69.64
91.5	671,139	2,329	0.0035	0.9965	69.60
92.5	663,564	379	0.0006	0.9994	69.36
93.5	398,438	189	0.0005	0.9995	69.32
94.5	115,132	4,136	0.0359	0.9641	69.29
95.5	110,996		0.0000	1.0000	66.80
96.5	110,996		0.0000	1.0000	66.80
97.5	69,711		0.0000	1.0000	66.80
98.5	69,711		0.0000	1.0000	66.80
99.5	69,711		0.0000	1.0000	66.80
100.5	69,711		0.0000	1.0000	66.80
101.5	13,842		0.0000	1.0000	66.80
102.5	13,842	190	0.0137	0.9863	66.80
103.5	13,652		0.0000	1.0000	65.88
104.5	13,652		0.0000	1.0000	65.88
105.5					65.88

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 219 of 317

DUKE ENERGY PROGRESS
ACCOUNT 355 POLES AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1909-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	716,255,926	1,648,867	0.0023	0.9977	100.00
0.5	679,028,630	2,108,520	0.0031	0.9969	99.77
1.5	650,076,984	2,376,041	0.0037	0.9963	99.46
2.5	578,010,359	2,557,569	0.0044	0.9956	99.10
3.5	522,283,542	1,052,968	0.0020	0.9980	98.66
4.5	454,582,633	1,964,362	0.0043	0.9957	98.46
5.5	385,625,438	1,826,179	0.0047	0.9953	98.03
6.5	354,403,327	1,555,663	0.0044	0.9956	97.57
7.5	333,830,734	4,683,886	0.0140	0.9860	97.14
8.5	307,118,341	1,484,567	0.0048	0.9952	95.78
9.5	280,155,991	1,479,301	0.0053	0.9947	95.32
10.5	263,650,268	1,601,830	0.0061	0.9939	94.81
11.5	255,724,049	1,005,430	0.0039	0.9961	94.24
12.5	248,571,929	1,705,984	0.0069	0.9931	93.87
13.5	240,263,621	1,820,021	0.0076	0.9924	93.22
14.5	229,070,271	2,133,025	0.0093	0.9907	92.51
15.5	214,602,616	895,423	0.0042	0.9958	91.65
16.5	202,915,580	1,156,674	0.0057	0.9943	91.27
17.5	192,012,310	2,317,776	0.0121	0.9879	90.75
18.5	178,761,844	1,166,981	0.0065	0.9935	89.66
19.5	173,355,351	1,487,601	0.0086	0.9914	89.07
20.5	163,821,262	1,034,841	0.0063	0.9937	88.31
21.5	156,402,188	1,786,978	0.0114	0.9886	87.75
22.5	153,961,088	1,347,581	0.0088	0.9912	86.75
23.5	149,566,049	1,474,995	0.0099	0.9901	85.99
24.5	144,237,791	1,314,703	0.0091	0.9909	85.14
25.5	140,280,158	1,552,433	0.0111	0.9889	84.36
26.5	131,060,975	1,323,309	0.0101	0.9899	83.43
27.5	126,088,815	1,482,561	0.0118	0.9882	82.59
28.5	114,940,896	1,384,251	0.0120	0.9880	81.62
29.5	103,674,342	1,481,948	0.0143	0.9857	80.63
30.5	92,628,069	1,550,483	0.0167	0.9833	79.48
31.5	85,768,979	1,127,275	0.0131	0.9869	78.15
32.5	69,066,455	877,848	0.0127	0.9873	77.12
33.5	62,689,636	1,164,220	0.0186	0.9814	76.14
34.5	56,586,598	1,165,380	0.0206	0.9794	74.73
35.5	49,130,431	808,154	0.0164	0.9836	73.19
36.5	43,201,188	614,829	0.0142	0.9858	71.98
37.5	38,678,160	754,387	0.0195	0.9805	70.96
38.5	33,154,255	782,634	0.0236	0.9764	69.58

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 221 of 317

DUKE ENERGY PROGRESS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1909-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	28,481,866	546,555	0.0192	0.9808	67.93
40.5	23,853,542	488,839	0.0205	0.9795	66.63
41.5	20,915,502	376,087	0.0180	0.9820	65.26
42.5	18,586,216	233,532	0.0126	0.9874	64.09
43.5	13,392,372	278,060	0.0208	0.9792	63.29
44.5	9,627,458	256,929	0.0267	0.9733	61.97
45.5	8,660,388	193,983	0.0224	0.9776	60.32
46.5	7,382,601	93,576	0.0127	0.9873	58.97
47.5	6,139,142	60,478	0.0099	0.9901	58.22
48.5	5,1470,255	199,220	0.0364	0.9636	57.65
49.5	3,954,333	144,853	0.0366	0.9634	55.55
50.5	2,841,879	31,483	0.0111	0.9889	53.51
51.5	2,480,105	121,685	0.0491	0.9509	52.92
52.5	2,109,812	39,177	0.0186	0.9814	50.32
53.5	2,069,724	98,020	0.0474	0.9526	49.39
54.5	1,887,267	14,627	0.0078	0.9922	47.05
55.5	1,494,609	27,152	0.0182	0.9818	46.68
56.5	1,383,348	37,123	0.0268	0.9732	45.84
57.5	1,280,185	7,537	0.0059	0.9941	44.61
58.5	1,181,881	11,451	0.0097	0.9903	44.34
59.5	1,167,469	20,864	0.0179	0.9821	43.91
60.5	1,074,970	6,191	0.0058	0.9942	43.13
61.5	979,267	7,720	0.0079	0.9921	42.88
62.5	879,375	5,831	0.0066	0.9934	42.54
63.5	729,442	10,509	0.0144	0.9856	42.26
64.5	542,519	1,806	0.0033	0.9967	41.65
65.5	510,048	10,594	0.0208	0.9792	41.51
66.5	485,223	2,070	0.0043	0.9957	40.65
67.5	462,615	2,127	0.0046	0.9954	40.48
68.5	404,899	5,091	0.0126	0.9874	40.29
69.5	398,752	322	0.0008	0.9992	39.78
70.5	382,312	1,611	0.0042	0.9958	39.75
71.5	380,701	1,029	0.0027	0.9973	39.59
72.5	362,752	1,473	0.0041	0.9959	39.48
73.5	300,398	10,903	0.0363	0.9637	39.32
74.5	279,335		0.0000	1.0000	37.89
75.5	215,587		0.0000	1.0000	37.89
76.5	215,587		0.0000	1.0000	37.89
77.5	203,727		0.0000	1.0000	37.89
78.5	203,727		0.0000	1.0000	37.89

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 222 of 317

DUKE ENERGY PROGRESS
ACCOUNT 355 POLES AND FIXTURES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1909-2016		EXPERIENCE BAND 1954-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	201,334		0.0000	1.0000	37.89
80.5	199,852		0.0000	1.0000	37.89
81.5	199,852		0.0000	1.0000	37.89
82.5	199,852		0.0000	1.0000	37.89
83.5	199,852		0.0000	1.0000	37.89
84.5	199,852	237	0.0012	0.9988	37.89
85.5	175,032		0.0000	1.0000	37.85
86.5	171,900		0.0000	1.0000	37.85
87.5	164,959		0.0000	1.0000	37.85
88.5	152,843		0.0000	1.0000	37.85
89.5	106,504		0.0000	1.0000	37.85
90.5	81,170		0.0000	1.0000	37.85
91.5	80,694		0.0000	1.0000	37.85
92.5	64,977		0.0000	1.0000	37.85
93.5	58,277		0.0000	1.0000	37.85
94.5	58,277		0.0000	1.0000	37.85
95.5	19,990		0.0000	1.0000	37.85
96.5	19,990		0.0000	1.0000	37.85
97.5	19,813		0.0000	1.0000	37.85
98.5	17,534		0.0000	1.0000	37.85
99.5	4,872		0.0000	1.0000	37.85
100.5	4,872		0.0000	1.0000	37.85
101.5					37.85

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 223 of 317

DUKE ENERGY PROGRESS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1915-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	671,754,019	1,002,058	0.0015	0.9985	100.00
0.5	640,800,208	2,105,085	0.0033	0.9967	99.85
1.5	616,297,398	2,359,719	0.0038	0.9962	99.52
2.5	547,705,204	2,524,914	0.0046	0.9954	99.14
3.5	499,703,542	1,005,560	0.0020	0.9980	98.68
4.5	436,831,369	1,935,128	0.0044	0.9956	98.49
5.5	369,048,440	1,776,144	0.0048	0.9952	98.05
6.5	340,311,535	1,495,451	0.0044	0.9956	97.58
7.5	321,500,962	4,593,220	0.0143	0.9857	97.15
8.5	295,891,531	1,442,883	0.0049	0.9951	95.76
9.5	271,933,847	1,349,477	0.0050	0.9950	95.29
10.5	256,844,400	1,549,136	0.0060	0.9940	94.82
11.5	249,677,015	969,258	0.0039	0.9961	94.25
12.5	243,073,789	1,673,847	0.0069	0.9931	93.88
13.5	234,873,146	1,787,437	0.0076	0.9924	93.24
14.5	224,027,319	2,082,541	0.0093	0.9907	92.53
15.5	210,510,034	838,642	0.0040	0.9960	91.67
16.5	199,217,056	803,734	0.0040	0.9960	91.30
17.5	189,283,543	2,228,870	0.0118	0.9882	90.93
18.5	176,219,467	1,129,198	0.0064	0.9936	89.86
19.5	170,868,520	1,437,643	0.0084	0.9916	89.29
20.5	161,607,803	971,093	0.0060	0.9940	88.54
21.5	154,383,714	1,764,401	0.0114	0.9886	88.00
22.5	152,109,155	1,294,835	0.0085	0.9915	87.00
23.5	148,035,125	1,377,923	0.0093	0.9907	86.26
24.5	143,138,298	1,229,801	0.0086	0.9914	85.45
25.5	139,234,297	1,538,351	0.0110	0.9890	84.72
26.5	129,868,924	1,316,044	0.0101	0.9899	83.78
27.5	124,748,851	1,449,272	0.0116	0.9884	82.94
28.5	113,686,526	1,370,610	0.0121	0.9879	81.97
29.5	102,294,549	1,464,662	0.0143	0.9857	80.98
30.5	91,302,226	11542,019	0.0169	0.9831	79.82
31.5	84,451,355	1,076,341	0.0127	0.9873	78.48
32.5	67,875,438	831,250	0.0122	0.9878	77.48
33.5	61,621,291	1,077,290	0.0175	0.9825	76.53
34.5	55,617,380	1,081,560	0.0194	0.9806	75.19
35.5	48,357,763	752,202	0.0156	0.9844	73.73
36.5	42,473,495	609,999	0.0144	0.9856	72.58
37.5	37,967,284	653,259	0.0172	0.9828	71.54
38.5	32,539,635	754,467	0.0232	0.9768	70.31

DUKE ENERGY PROGRESS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1915-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	27,910,861	521,936	0.0187	0.9813	68.68
40.5	23,308,638	387,762	0.0166	0.9834	67.39
41.5	20,471,031	372,861	0.0182	0.9818	66.27
42.5	18,145,067	230,431	0.0127	0.9873	65.06
43.5	12,954,323	265,201	0.0205	0.9795	64.24
44.5	9,201,885	254,975	0.0277	0.9723	62.92
45.5	8,294,730	190,503	0.0230	0.9770	61.18
46.5	7,032,200	91,448	0.0130	0.9870	59.77
47.5	5,812,183	60,095	0.0103	0.9897	59.00
48.5	5,156,471	142,188	0.0276	0.9724	58.39
49.5	3,825,402	144,802	0.0379	0.9621	56.78
50.5	2,752,654	31,483	0.0114	0.9886	54.63
51.5	2,398,797	121,685	0.0507	0.9493	54.00
52.5	2,044,222	39,177	0.0192	0.9808	51.26
53.5	2,010,834	98,020	0.0487	0.9513	50.28
54.5	1,828,840	14,477	0.0079	0.9921	47.83
55.5	1,474,619	27,152	0.0184	0.9816	47.45
56.5	1,363,358	37,123	0.0272	0.9728	46.58
57.5	1,260,372	7,537	0.0060	0.9940	45.31
58.5	1,164,347	11,451	0.0098	0.9902	45.04
59.5	1,162,597	20,864	0.0179	0.9821	44.60
60.5	1,070,098	6,191	0.0058	0.9942	43.80
61.5	979,267	7,720	0.0079	0.9921	43.54
62.5	879,375	5,831	0.0066	0.9934	43.20
63.5	729,442	10,509	0.0144	0.9856	42.91
64.5	542,519	1,806	0.0033	0.9967	42.29
65.5	510,048	10,594	0.0208	0.9792	42.15
66.5	485,223	2,070	0.0043	0.9957	41.28
67.5	462,615	2,127	0.0046	0.9954	41.10
68.5	404,899	5,091	0.0126	0.9874	40.91
69.5	398,752	322	0.0008	0.9992	40.40
70.5	382,312	1,611	0.0042	0.9958	40.37
71.5	380,701	1,029	0.0027	0.9973	40.20
72.5	362,752	1,473	0.0041	0.9959	40.09
73.5	300,398	10,903	0.0363	0.9637	39.92
74.5	279,335		0.0000	1.0000	38.47
75.5	215,587		0.0000	1.0000	38.47
76.5	215,587		0.0000	1.0000	38.47
77.5	203,727		0.0000	1.0000	38.47
78.5	203,727		0.0000	1.0000	38.47

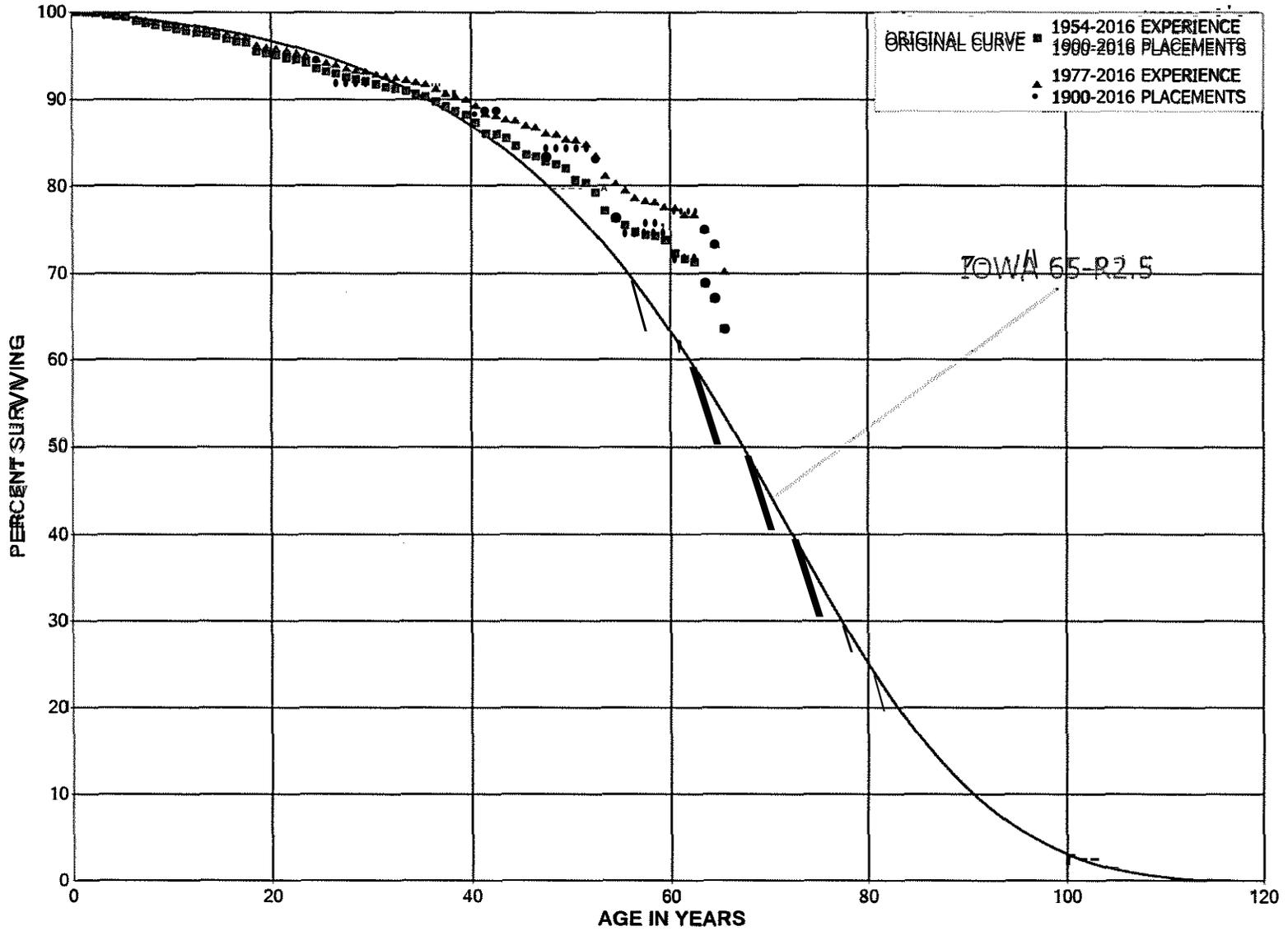
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 225 of 317

DUKE ENERGY PROGRESS
ACCOUNT 355 POLES AND FIXTURES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1915-2016		EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	201,334		0.0000	1.0000	38.47
80.5	199,852		0.0000	1.0000	38.47
81.5	199,852		0.0000	1.0000	38.47
82.5	199,852		0.0000	1.0000	38.47
83.5	199,852		0.0000	1.0000	38.47
84.5	199,852	237	0.0012	0.9988	38.47
85.5	175,032		0.0000	1.0000	38.43
86.5	171,900		0.0000	1.0000	38.43
87.5	164,959		0.0000	1.0000	38.43
88.5	152,843		0.0000	1.0000	38.43
89.5	106,504		0.0000	1.0000	38.43
90.5	81,170		0.0000	1.0000	38.43
91.5	80,694		0.0000	1.0000	38.43
92.5	64,977		0.0000	1.0000	38.43
93.5	58,277		0.0000	1.0000	38.43
94.5	58,277		0.0000	1.0000	38.43
95.5	19,990		0.0000	1.0000	38.43
96.5	19,990		0.0000	1.0000	38.43
97.5	19,813		0.0000	1.0000	38.43
98.5	17,534		0.0000	1.0000	38.43
99.5	4,872		0.0000	1.0000	38.43
100.5	4,872		0.0000	1.0000	38.43
101.5					38.43

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 226 of 317

DUKE ENERGY PROGRESS
ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1900-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	481,340,175	250,012	0.0005	0.9995	100.00
0.5	418,992,919	72,985	0.0002	0.9998	99.95
1.5	409,026,799	472,004	0.0012	0.9988	99.93
2.5	381,922,966	611,354	0.0016	0.9984	99.82
3.5	365,525,668	417,606	0.0011	0.9989	99.66
4.5	345,481,366	482,710	0.0014	0.9986	99.54
5.5	296,067,701	1,509,355	0.0051	0.9949	99.40
6.5	286,793,534	640,681	0.0022	0.9978	98.90
7.5	276,583,312	581,693	0.0021	0.9979	98.67
8.5	258,908,761	430,545	0.0017	0.9983	98.47
9.5	245,106,052	604,996	0.0025	0.9975	98.30
10.5	237,578,311	655,643	0.0028	0.9972	98.06
11.5	231,782,209	427,036	0.0018	0.9982	97.79
12.5	225,723,089	330,736	0.0015	0.9985	97.61
13.5	218,634,587	476,927	0.0022	0.9978	97.47
14.5	211,721,173	697,587	0.0033	0.9967	97.25
15.5	203,205,804	587,933	0.0029	0.9971	96.93
16.5	198,819,779	297,147	0.0015	0.9985	96.65
17.5	195,086,349	2,072,157	0.0106	0.9894	96.51
18.5	187,957,907	457,158	0.0024	0.9976	95.48
19.5	185,857,900	396,373	0.0021	0.9979	95.25
20.5	182,780,632	582,447	0.0032	0.9968	95.05
21.5	178,011,719	543,634	0.0031	0.9969	94.75
22.5	175,656,630	612,188	0.0035	0.9965	94.46
23.5	174,029,730	1,071,652	0.0062	0.9938	94.13
24.5	168,341,451	646,179	0.0038	0.9962	93.55
25.5	166,645,866	496,478	0.0030	0.9970	93.19
26.5	162,690,030	739,031	0.0045	0.9955	92.91
27.5	160,290,129	401,866	0.0025	0.9975	92.49
28.5	153,899,700	406,054	0.0026	0.9974	92.26
29.5	148,854,144	489,252	0.0033	0.9967	92.01
30.5	141,860,857	449,001	0.0032	0.9968	91.71
31.5	128,762,223	319,126	0.0025	0.9975	91.42
32.5	114,444,366	356,449	0.0031	0.9969	91.19
33.5	102,512,464	384,677	0.0038	0.9962	90.91
34.5	90,235,180	251,374	0.0028	0.9972	90.57
35.5	82,512,165	505,792	0.0061	0.9939	90.32
36.5	76,535,665	519,570	0.0068	0.9932	89.76
37.5	71,761,876	428,707	0.0060	0.9940	89.15
38.5	64,340,042	302,099	0.0047	0.9953	88.62

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 228 of 317

DUKE ENERGY PROGRESS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1900-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	56,477,311	586,368	0.0104	0.9896	88.21
40.5	54,388,395	769,629	0.0142	0.9858	87.29
41.5	50,275,032	94,081	0.0019	0.9981	86.05
42.5	46,937,904	232,561	0.0050	0.9950	85.89
43.5	41,629,499	421,979	0.0101	0.9899	85.47
44.5	30,715,035	356,875	0.0116	0.9884	84.60
45.5	28,646,150	93,496	0.0033	0.9967	83.62
46.5	26,236,812	172,985	0.0066	0.9934	83.35
47.5	22,461,878	86,954	0.0039	0.9961	82.80
48.5	19,684,798	108,925	0.0055	0.9945	82.48
49.5	14,304,400	224,650	0.0157	0.9843	82.02
50.5	11,160,036	52,689	0.0047	0.9953	80.73
51.5	10,297,415	139,990	0.0136	0.9864	80.35
52.5	9,017,429	241,602	0.0268	0.9732	79.26
53.5	8,719,785	99,182	0.0114	0.9886	77.13
54.5	7,720,069	72,883	0.0094	0.9906	76.26
55.5	5,911,234	60,562	0.0102	0.9898	75.54
56.5	5,232,412	25,646	0.0049	0.9951	74.76
57.5	4,844,673	4,681	0.0010	0.9990	74.40
58.5	4,412,191	30,950	0.0070	0.9930	74.32
59.5	4,376,739	88,835	0.0203	0.9797	73.80
60.5	4,095,845	40,910	0.0100	0.9900	72.31
61.5	3,648,195	14,050	0.0039	0.9961	71.58
62.5	3,114,550	109,733	0.0352	0.9648	71.31
63.5	2,698,893	65,744	0.0244	0.9756	68.79
64.5	2,173,519	114,731	0.0528	0.9472	67.12
65.5	2,000,199	4,296	0.0021	0.9979	63.58
66.5	1,920,331	31,738	0.0165	0.9835	63.44
67.5	1,822,164	2,558	0.0014	0.9986	62.39
68.5	1,654,667	8,736	0.0053	0.9947	62.30
69.5	1,645,931	24,984	0.0152	0.9848	61.97
70.5	1,596,746	4,088	0.0026	0.9974	61.03
71.5	1,592,658	15,205	0.0095	0.9905	60.88
72.5	1,573,794	104,753	0.0666	0.9334	60.30
73.5	1,375,885	1,870	0.0014	0.9986	56.28
74.5	1,367,152	134,015	0.0980	0.9020	56.21
75.5	1,129,220		0.0000	1.0000	50.70
76.5	1,129,220	4,535	0.0040	0.9960	50.70
77.5	1,124,529	1,824	0.0016	0.9984	50.49
78.5	1,122,706	19,021	0.0169	0.9831	50.41

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 229 of 317

DUKE ENERGY PROGRESS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1900-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,093,324	12,351	0.0113	0.9887	49.56
80.5	1,080,973	571	0.0005	0.9995	49.00
81.5	1,080,401	187	0.0002	0.9998	48.97
82.5	1,066,657	5,608	0.0053	0.9947	48.96
83.5	1,061,049	55,991	0.0528	0.9472	48.71
84.5	1,005,058	0	0.0000	1.0000	46.14
85.5	931,372	16,733	0.0180	0.9820	46.14
86.5	914,513	7,741	0.0085	0.9915	45.31
87.5	902,508		0.0000	1.0000	44.92
88.5	880,510		0.0000	1.0000	44.92
89.5	677,150	9	0.0000	1.0000	44.92
90.5	650,329	519	0.0008	0.9992	44.92
91.5	640,087	0	0.0000	1.0000	44.89
92.5	325,547	0	0.0000	1.0000	44.89
93.5	130,356	3,462	0.0266	0.9734	44.89
94.5	123,450		0.0000	1.0000	43.69
95.5	114,173		0.0000	1.0000	43.69
96.5	110,396		0.0000	1.0000	43.69
97.5	110,396		0.0000	1.0000	43.69
98.5	97,972		0.0000	1.0000	43.69
99.5	80,086		0.0000	1.0000	43.69
100.5	74,883		0.0000	1.0000	43.69
101.5	71,991		0.0000	1.0000	43.69
102.5	65,695		0.0000	1.0000	43.69
103.5	64,026		0.0000	1.0000	43.69
104.5	56,810		0.0000	1.0000	43.69
105.5	21,825		0.0000	1.0000	43.69
106.5	19,164		0.0000	1.0000	43.69
107.5	19,164	1,744	0.0910	0.9090	43.69
108.5					39.72

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 230 of 317

DUKE ENERGY PROGRESS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1900-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	420,092,652	141,339	0.0003	0.9997	100.00
0.5	359,624,717	69,031	0.0002	0.9998	99.97
1.5	352,254,130	371,785	0.0011	0.9989	99.95
2.5	328,902,739	583,318	0.0018	0.9982	99.84
3.5	318,592,366	382,652	0.0012	0.9988	99.66
4.5	309,906,591	322,954	0.0010	0.9990	99.54
5.5	261,983,325	947,700	0.0036	0.9964	99.44
6.5	255,584,021	505,410	0.0020	0.9980	99.08
7.5	249,325,241	454,142	0.0018	0.9982	98.89
8.5	234,592,194	364,720	0.0016	0.9984	98.71
9.5	227,923,100	399,902	0.0018	0.9982	98.55
10.5	223,630,519	540,778	0.0024	0.9976	98.38
11.5	219,794,749	408,281	0.0019	0.9981	98.14
12.5	214,657,960	257,936	0.0012	0.9988	97.96
13.5	207,800,006	419,141	0.0020	0.9980	97.84
14.5	201,898,332	662,256	0.0033	0.9967	97.64
15.5	195,274,174	239,555	0.0012	0.9988	97.32
16.5	192,236,527	204,937	0.0011	0.9989	97.20
17.5	189,279,073	1,952,279	0.0103	0.9897	97.10
18.5	183,068,505	421,148	0.0023	0.9977	96.10
19.5	180,991,509	361,325	0.0020	0.9980	95.88
20.5	178,302,865	428,772	0.0024	0.9976	95.69
21.5	174,157,488	475,728	0.0027	0.9973	95.46
22.5	172,319,049	521,036	0.0030	0.9970	95.20
23.5	170,929,912	1,019,407	0.0060	0.9940	94.91
24.5	165,696,436	505,566	0.0031	0.9969	94.34
25.5	164,344,248	440,697	0.0027	0.9973	94.05
26.5	159,169,872	653,561	0.0041	0.9959	93.80
27.5	156,781,552	359,491	0.0023	0.9977	93.42
28.5	150,616,021	282,802	0.0019	0.9981	93.20
29.5	145,011,723	447,536	0.0031	0.9969	93.03
30.5	137,967,011	415,135	0.0030	0.9970	92.74
31.5	124,827,731	271,752	0.0022	0.9978	92.46
32.5	110,577,065	186,346	0.0017	0.9983	92.26
33.5	98,908,329	265,261	0.0027	0.9973	92.10
34.5	86,747,196	191,453	0.0022	0.9978	91.86
35.5	79,233,462	504,282	0.0064	0.9936	91.65
36.5	73,059,601	435,964	0.0060	0.9940	91.07
37.5	68,360,635	244,292	0.0036	0.9964	90.53
38.5	61,120,308	268,584	0.0044	0.9956	90.20

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 231 of 317

DUKE ENERGY PROGRESS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1900-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	53,403,987	401,047	0.0075	0.9925	89.81
40.5	51,484,182	584,888	0.0114	0.9886	89.13
41.5	47,498,736	91,293	0.0019	0.9981	88.12
42.5	43,964,872	206,151	0.0047	0.9953	87.95
43.5	38,676,949	67,132	0.0017	0.9983	87.54
44.5	28,083,954	185,492	0.0066	0.9934	87.39
45.5	26,287,691	72,510	0.0028	0.9972	86.81
46.5	23,902,180	171,638	0.0072	0.9928	86.57
47.5	20,136,395	23,474	0.0012	0.9988	85.95
48.5	17,462,185	108,888	0.0062	0.9938	85.85
49.5	12,938,482	26,532	0.0021	0.9979	85.31
50.5	10,040,602	48,615	0.0048	0.9952	85.14
51.5	9,208,287	139,636	0.0152	0.9848	84.73
52.5	8,429,218	240,323	0.0285	0.9715	83.44
53.5	8,341,949	94,462	0.0113	0.9887	81.06
54.5	7,350,397	71,965	0.0098	0.9902	80.14
55.5	5,564,978	60,456	0.0109	0.9891	79.36
56.5	4,890,040	20,625	0.0042	0.9958	78.50
57.5	4,507,321	4,593	0.0010	0.9990	78.17
58.5	4,112,512	29,259	0.0071	0.9929	78.09
59.5	4,096,638	5,635	0.0014	0.9986	77.53
60.5	3,904,619	40,851	0.0105	0.9895	77.42
61.5	3,459,920	2,444	0.0007	0.9993	76.61
62.5	2,944,177	64,559	0.0219	0.9781	76.56
63.5	2,575,363	58,054	0.0225	0.9775	74.88
64.5	2,067,872	87,288	0.0422	0.9578	73.19
65.5	1,971,933	1,635	0.0008	0.9992	70.10
66.5	1,897,387	31,738	0.0167	0.9833	70.05
67.5	1,799,219	2,558	0.0014	0.9986	68.87
68.5	1,654,642	8,736	0.0053	0.9947	68.78
69.5	1,645,906	24,984	0.0152	0.9848	68.41
70.5	1,596,721	4,088	0.0026	0.9974	67.37
71.5	1,592,633	15,205	0.0095	0.9905	67.20
72.5	1,573,769	104,753	0.0666	0.9334	66.56
73.5	1,375,860	1,870	0.0014	0.9986	62.13
74.5	1,367,127	134,015	0.0980	0.9020	62.05
75.5	1,129,195		0.0000	1.0000	55.96
76.5	1,129,220	4,535	0.0040	0.9960	55.96
77.5	1,124,529	1,824	0.0016	0.9984	55.74
78.5	1,122,706	19,021	0.0169	0.9831	55.65

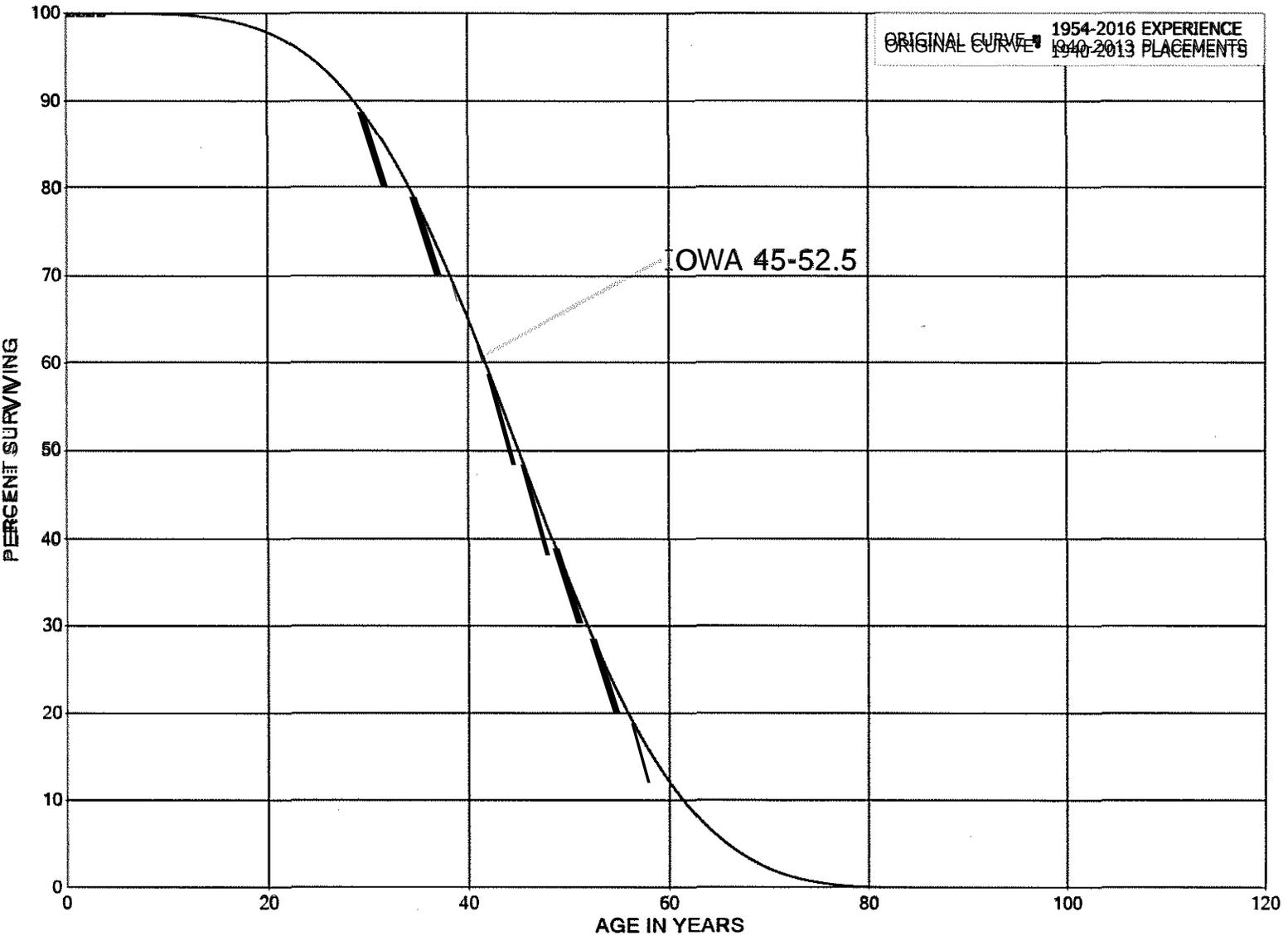
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 232 of 317

DUKE ENERGY PROGRESS
ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1900-2016			EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	1,093,324	12,351	0.0113	0.9887	54.71	
80.5	1,080,973	571	0.0005	0.9995	54.09	
81.5	1,080,401	187	0.0002	0.9998	54.06	
82.5	1,066,657	5,608	0.0053	0.9947	54.05	
83.5	1,061,049	55,991	0.0528	0.9472	53.77	
84.5	1,005,058	0	0.0000	1.0000	50.93	
85.5	931,372	16,733	0.0180	0.9820	50.93	
86.5	914,513	7,741	0.0085	0.9915	50.01	
87.5	902,508		0.0000	1.0000	49.59	
88.5	880,510		0.0000	1.0000	49.59	
89.5	677,150	9	0.0000	1.0000	49.59	
90.5	650,329	519	0.0008	0.9992	49.59	
91.5	640,087	0	0.0000	1.0000	49.55	
92.5	325,547	0	0.0000	1.0000	49.55	
93.5	130,356	3,462	0.0266	0.9734	49.55	
94.5	123,450		0.0000	1.0000	48.23	
95.5	114,173		0.0000	1.0000	48.23	
96.5	110,396		0.0000	1.0000	48.23	
97.5	110,396		0.0000	1.0000	48.23	
98.5	97,972		0.0000	1.0000	48.23	
99.5	80,086		0.0000	1.0000	48.23	
100.5	74,883		0.0000	1.0000	48.23	
101.5	71,991		0.0000	1.0000	48.23	
102.5	65,695		0.0000	1.0000	48.23	
103.5	64,026		0.0000	1.0000	48.23	
104.5	56,810		0.0000	1.0000	48.23	
105.5	21,825		0.0000	1.0000	48.23	
106.5	19,164		0.0000	1.0000	48.23	
107.5	19,164	1,744	0.0910	0.9090	48.23	
108.5					43.85	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 233 of 317

DUKE ENERGY PROGRESS
ACCOUNT 358 UNDERGROUND CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

ML-171

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 358 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

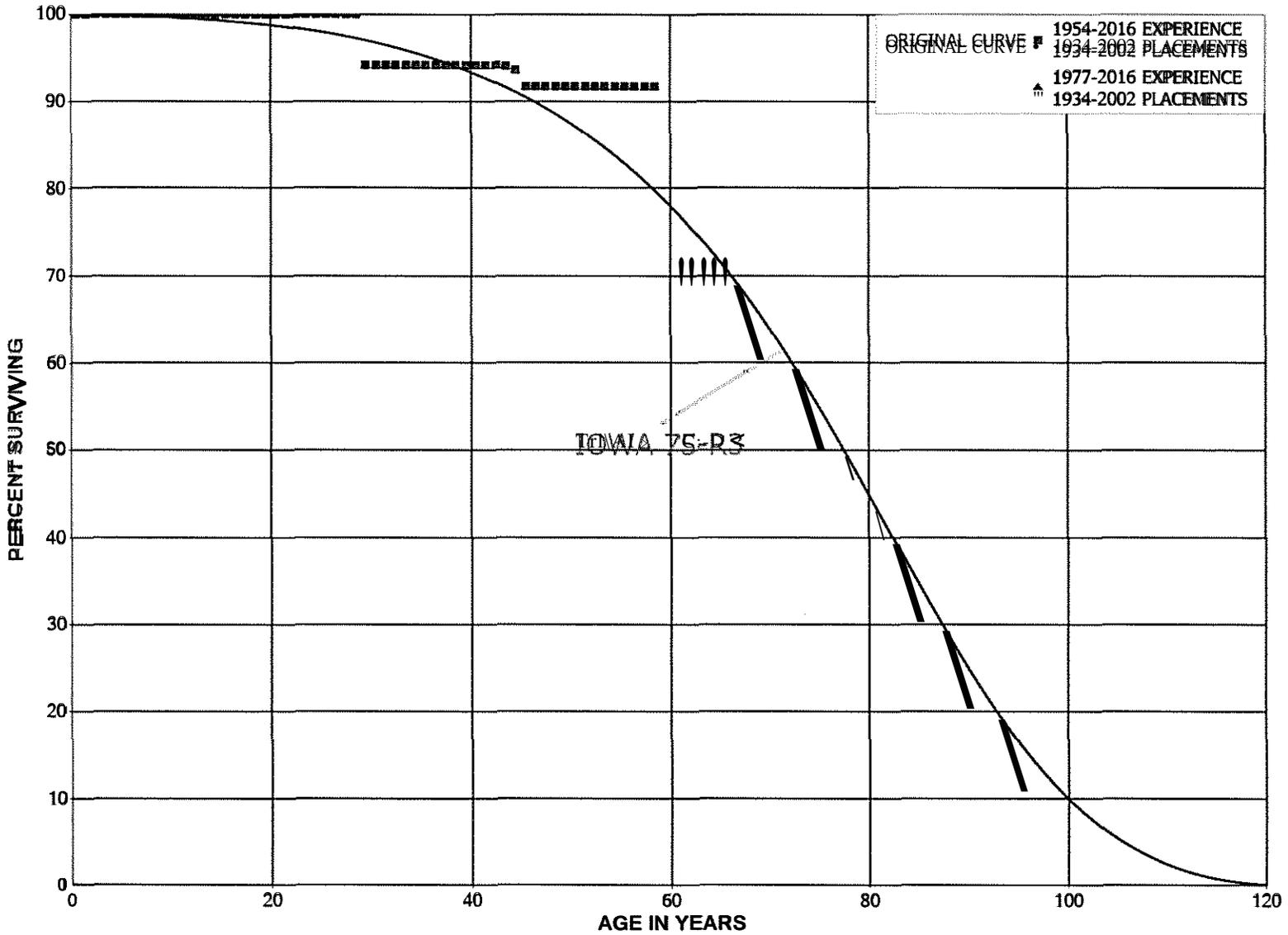
PLACEMENT BAND 1940-2013

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	21,603,999		0.0000	1.0000	100.00
0.5	21,603,999		0.0000	1.0000	100.00
1.5	21,603,999		0.0000	1.0000	100.00
2.5	21,603,999		0.0000	1.0000	100.00
3.5					100.00
4.5					
5.5					
6.5					
7.5					
8.5					
9.5					
10.5					
11.5	11,427	11,427	1.0000		
12.5	713	713	1.0000		
13.5	12,622		0.0000		
14.5	12,622		0.0000		
15.5	12,622		0.0000		
16.5	12,622	12,622	1.0000		
17.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 235 of 317

DUKE ENERGY PROGRESS
ACCOUNT 359 ROADS AND TRAILS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VL-173

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 359 ROADS AND TRAILS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1934-2002

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	319,186		0.0000	1.0000	100.00
0.5	312,823		0.0000	1.0000	100.00
1.5	312,823		0.0000	1.0000	100.00
2.5	312,823		0.0000	1.0000	100.00
3.5	313,751		0.0000	1.0000	100.00
4.5	313,751		0.0000	1.0000	100.00
5.5	313,751		0.0000	1.0000	100.00
6.5	313,751	300	0.0010	0.9990	100.00
7.5	313,451		0.0000	1.0000	99.90
8.5	313,451		0.0000	1.0000	99.90
9.5	313,451		0.0000	1.0000	99.90
10.5	313,451		0.0000	1.0000	99.90
11.5	313,451		0.0000	1.0000	99.90
12.5	313,451		0.0000	1.0000	99.90
13.5	313,451		0.0000	1.0000	99.90
14.5	15,923		0.0000	1.0000	99.90
15.5	15,923		0.0000	1.0000	99.90
16.5	15,923		0.0000	1.0000	99.90
17.5	15,943		0.0000	1.0000	99.90
18.5	15,989		0.0000	1.0000	99.90
19.5	16,194		0.0000	1.0000	99.90
20.5	16,194		0.0000	1.0000	99.90
21.5	16,194		0.0000	1.0000	99.90
22.5	16,194		0.0000	1.0000	99.90
23.5	16,194		0.0000	1.0000	99.90
24.5	16,153		0.0000	1.0000	99.90
25.5	16,194		0.0000	1.0000	99.90
26.5	16,194		0.0000	1.0000	99.90
27.5	16,194		0.0000	1.0000	99.90
28.5	16,194	928	0.0573	0.9427	99.90
29.5	15,266		0.0000	1.0000	94.18
30.5	15,266		0.0000	1.0000	94.18
31.5	15,266		0.0000	1.0000	94.18
32.5	15,266		0.0000	1.0000	94.18
33.5	15,266		0.0000	1.0000	94.18
34.5	15,266		0.0000	1.0000	94.18
35.5	15,266		0.0000	1.0000	94.18
36.5	15,266		0.0000	1.0000	94.18
37.5	15,266		0.0000	1.0000	94.18
38.5	15,266		0.0000	1.0000	94.18

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 237 of 317

DUKE ENERGY PROGRESS
ACCOUNT 359 ROADS AND TRAILS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1934-2002			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	15,266		0.0000	1.0000	94.18
40.5	15,266	0	0.0000	1.0000	94.18
41.5	15,266		0.0000	1.0000	94.18
42.5	15,266	20	0.0013	0.9987	94.18
43.5	9,982	46	0.0046	0.9954	94.05
44.5	9,936	205	0.0206	0.9794	93.62
45.5	9,731		0.0000	1.0000	91.69
46.5	9,731		0.0000	1.0000	91.69
47.5	9,731		0.0000	1.0000	91.69
48.5	9,731		0.0000	1.0000	91.69
49.5	9,731		0.0000	1.0000	91.69
50.5	9,731		0.0000	1.0000	91.69
51.5	9,731		0.0000	1.0000	91.69
52.5	9,731		0.0000	1.0000	91.69
53.5	9,731		0.0000	1.0000	91.69
54.5	9,731		0.0000	1.0000	91.69
55.5	9,731		0.0000	1.0000	91.69
56.5	9,731		0.0000	1.0000	91.69
57.5	8,556		0.0000	1.0000	91.69
58.5					91.69

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 238 of 317

DUKE ENERGY PROGRESS

ACCOUNT 359 ROADS AND TRAILS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1934-2002

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	303,891		0.0000	1.0000	100.00
0.5	297,528		0.0000	1.0000	100.00
1.5	297,528		0.0000	1.0000	100.00
2.5	297,528		0.0000	1.0000	100.00
3.5	303,092		0.0000	1.0000	100.00
4.5	303,092		0.0000	1.0000	100.00
5.5	303,092		0.0000	1.0000	100.00
6.5	303,092	300	0.0010	0.9990	100.00
7.5	302,792		0.0000	1.0000	99.90
8.5	302,792		0.0000	1.0000	99.90
9.5	302,792		0.0000	1.0000	99.90
10.5	302,792		0.0000	1.0000	99.90
11.5	302,792		0.0000	1.0000	99.90
12.5	302,792		0.0000	1.0000	99.90
13.5	302,792		0.0000	1.0000	99.90
14.5	5,264		0.0000	1.0000	99.90
15.5	5,264		0.0000	1.0000	99.90
16.5	5,305		0.0000	1.0000	99.90
17.5	6,439		0.0000	1.0000	99.90
18.5	14,995		0.0000	1.0000	99.90
19.5	14,995		0.0000	1.0000	99.90
20.5	14,995		0.0000	1.0000	99.90
21.5	14,995		0.0000	1.0000	99.90
22.5	14,995		0.0000	1.0000	99.90
23.5	14,995		0.0000	1.0000	99.90
24.5	14,954		0.0000	1.0000	99.90
25.5	14,995		0.0000	1.0000	99.90
26.5	15,923		0.0000	1.0000	99.90
27.5	15,923		0.0000	1.0000	99.90
28.5	15,923	928	0.0583	0.9417	99.90
29.5	14,995		0.0000	1.0000	94.08
30.5	14,995		0.0000	1.0000	94.08
31.5	14,995		0.0000	1.0000	94.08
32.5	14,995		0.0000	1.0000	94.08
33.5	14,995		0.0000	1.0000	94.08
34.5	14,995		0.0000	1.0000	94.08
35.5	14,995		0.0000	1.0000	94.08
36.5	14,995		0.0000	1.0000	94.08
37.5	14,995		0.0000	1.0000	94.08
38.5	14,995		0.0000	1.0000	94.08

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 239 of 317

DUKE ENERGY PROGRESS
ACCOUNT 359 ROADS AND TRAILS
ORIGINAL LIFE TABLE, CONT.

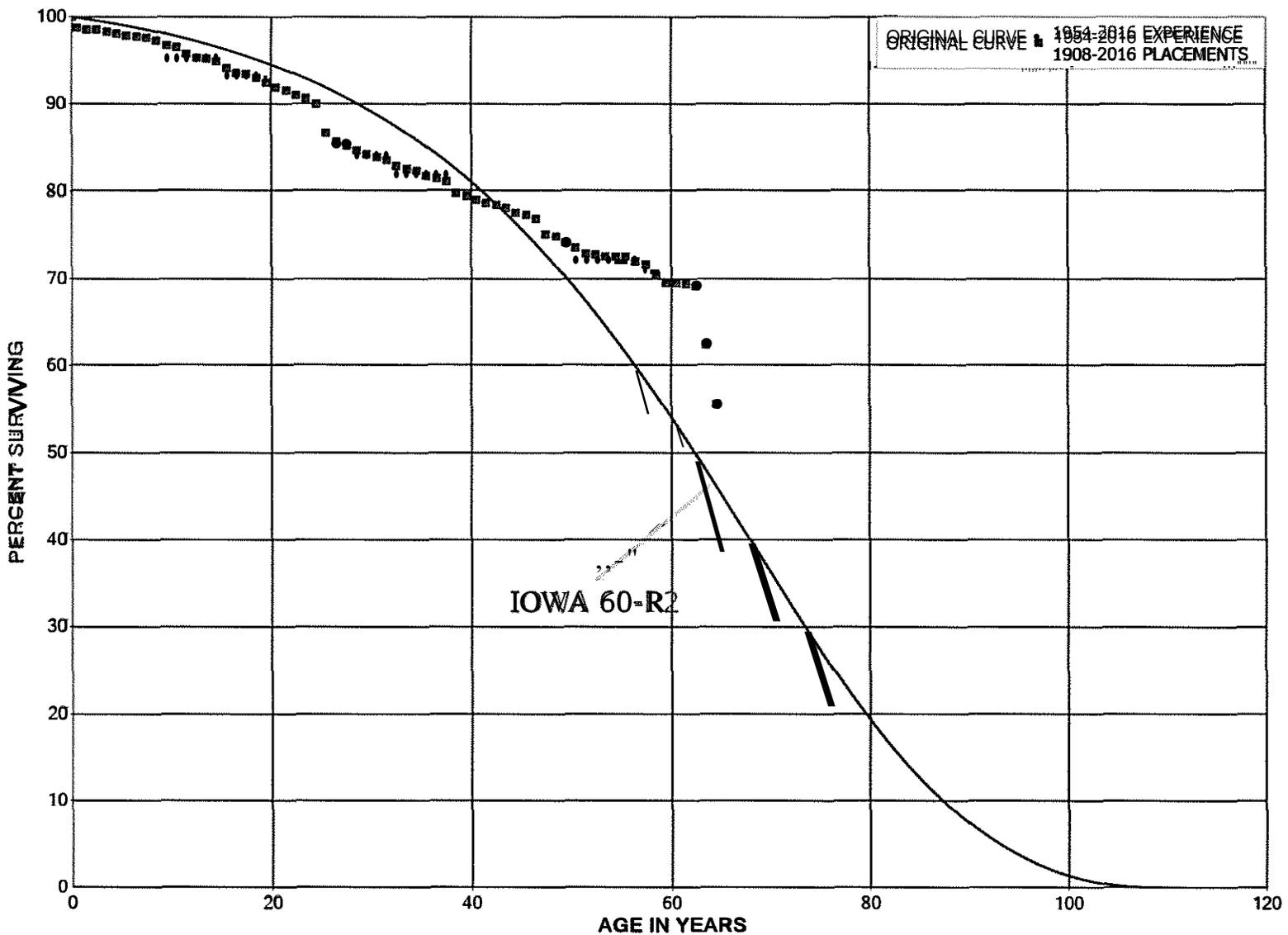
PLACEMENT BAND 1934-2002

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	14,995		0.0000	1.0000	94.08
40.5	15,015	0	0.0000	1.0000	94.08
41.5	15,061		0.0000	1.0000	94.08
42.5	15,266	20	0.0013	0.9987	94.08
43.5	9,982	46	0.0046	0.9954	93.95
44.5	9,936	205	0.0206	0.9794	93.52
45.5	9,731		0.0000	1.0000	91.59
46.5	9,731		0.0000	1.0000	91.59
47.5	9,731		0.0000	1.0000	91.59
48.5	9,731		0.0000	1.0000	91.59
49.5	9,731		0.0000	1.0000	91.59
50.5	9,731		0.0000	1.0000	91.59
51.5	9,731		0.0000	1.0000	91.59
52.5	9,731		0.0000	1.0000	91.59
53.5	9,731		0.0000	1.0000	91.59
54.5	9,731		0.0000	1.0000	91.59
55.5	9,731		0.0000	1.0000	91.59
56.5	9,731		0.0000	1.0000	91.59
57.5	8,556		0.0000	1.0000	91.59
58.5					91.59

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 240 of 317

DUKE ENERGY PROGRESS
ACCOUNT 361 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VL-178

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	123,232,720	1,629,530	0.0132	0.9868	100.00
0.5	111,604,378	159,446	0.0014	0.9986	98.68
1.5	108,580,059	55,676	0.0005	0.9995	98.54
2.5	108,843,798	269,475	0.0025	0.9975	98.49
3.5	106,066,540	162,126	0.0015	0.9985	98.24
4.5	104,973,280	309,521	0.0029	0.9971	98.09
5.5	100,734,634	110,732	0.0011	0.9989	97.80
6.5	97,888,020	109,437	0.0011	0.9989	97.70
7.5	96,535,373	308,256	0.0032	0.9968	97.59
8.5	90,229,704	464,507	0.0051	0.9949	97.27
9.5	87,347,879	252,180	0.0029	0.9971	96.77
10.5	81,586,214	694,366	0.0085	0.9915	96.49
11.5	76,802,315	294,041	0.0038	0.9962	95.67
12.5	74,236,133	128,623	0.0017	0.9983	95.31
13.5	66,420,305	219,697	0.0033	0.9967	95.14
14.5	61,452,564	480,051	0.0078	0.9922	94.83
15.5	51,123,870	299,505	0.0059	0.9941	94.09
16.5	46,715,952	91,157	0.0020	0.9980	93.54
17.5	42,136,437	194,788	0.0046	0.9954	93.35
18.5	40,256,806	206,328	0.0051	0.9949	92.92
19.5	39,112,469	272,405	0.0070	0.9930	92.44
20.5	34,209,183	122,201	0.0036	0.9964	91.80
21.5	32,135,802	164,303	0.0051	0.9949	91.47
22.5	28,168,352	117,022	0.0042	0.9958	91.01
23.5	26,107,647	208,516	0.0080	0.9920	90.63
24.5	23,267,131	848,649	0.0365	0.9635	89.90
25.5	21,854,610	248,009	0.0113	0.9887	86.62
26.5	18,467,868	110,428	0.0060	0.9940	85.64
27.5	16,857,006	104,805	0.0062	0.9938	85.13
28.5	13,020,364	71,934	0.0055	0.9945	84.60
29.5	12,069,763	48,561	0.0040	0.9960	84.13
30.5	10,876,151	42,449	0.0039	0.9961	83.79
31.5	10,001,486	73,488	0.0073	0.9927	83.47
32.5	9,388,830	44,775	0.0048	0.9952	82.85
33.5	8,438,658	20,884	0.0025	0.9975	82.46
34.5	7,696,446	45,150	0.0059	0.9941	82.25
35.5	6,871,867	32,878	0.0048	0.9952	81.77
36.5	5,893,348	20,638	0.0035	0.9965	81.38
37.5	5,453,032	88,682	0.0163	0.9837	81.10
38.5	4,714,946	23,241	0.0049	0.9951	79.78

DUKE ENERGY PROGRESS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,124,447	23,428	0.0057	0.9943	79.38
40.5	3,493,929	12,997	0.0037	0.9963	78.93
41.5	3,206,439	11,694	0.0036	0.9964	78.64
42.5	2,776,043	8,560	0.0031	0.9969	78.35
43.5	2,167,620	15,329	0.0071	0.9929	78.11
44.5	1,963,251	6,842	0.0035	0.9965	77.56
45.5	1,706,547	9,031	0.0053	0.9947	77.29
46.5	1,550,375	36,849	0.0238	0.9762	76.88
47.5	1,218,950	3,611	0.0030	0.9970	75.05
48.5	1,085,560	11,458	0.0106	0.9894	74.83
49.5	915,115	6,197	0.0068	0.9932	74.04
50.5	858,787	8,054	0.0094	0.9906	73.54
51.5	806,563	1,742	0.0022	0.9978	72.85
52.5	718,254	1,516	0.0021	0.9979	72.69
53.5	705,099	490	0.0007	0.9993	72.54
54.5	688,719		0.0000	1.0000	72.49
55.5	658,148	4,987	0.0076	0.9924	72.49
56.5	648,506	2,662	0.0041	0.9959	71.94
57.5	644,480	11,586	0.0180	0.9820	71.64
58.5	618,256	7,598	0.0123	0.9877	70.36
59.5	603,970	313	0.0005	0.9995	69.49
60.5	586,031	553	0.0009	0.9991	69.45
61.5	580,036	1,572	0.0027	0.9973	69.39
62.5	557,710	55,089	0.0988	0.9012	69.20
63.5	444,685	49,018	0.1102	0.8898	62.37
64.5	351,652	898	0.0026	0.9974	55.49
65.5	321,634		0.0000	1.0000	55.35
66.5	282,462		0.0000	1.0000	55.35
67.5	225,369	14,912	0.0662	0.9338	55.35
68.5	197,818		0.0000	1.0000	51.69
69.5	197,818	150	0.0008	0.9992	51.69
70.5	197,668	2,240	0.0113	0.9887	51.65
71.5	195,428	2,107	0.0108	0.9892	51.06
72.5	193,132	1,746	0.0090	0.9910	50.51
73.5	182,333	1,982	0.0109	0.9891	50.05
74.5	176,915	4,165	0.0235	0.9765	49.51
75.5	167,392	33,852	0.2022	0.7978	48.35
76.5	127,533	4,419	0.0347	0.9653	38.57
77.5	122,988	4,818	0.0392	0.9608	37.23
78.5	118,150	20,126	0.1703	0.8297	35.77

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 243 of 317

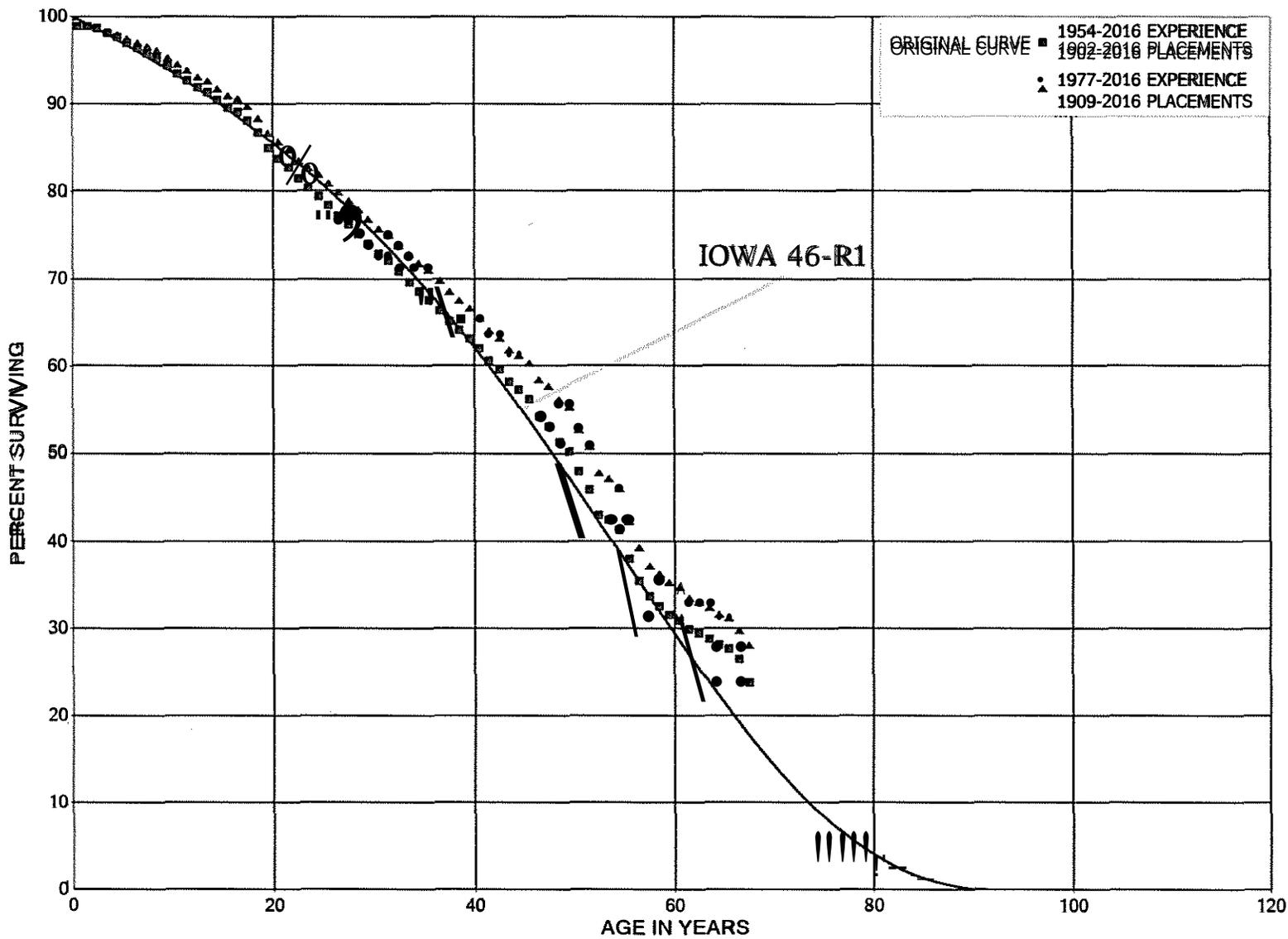
DUKE ENERGY PROGRESS
ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1954-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	97,997	1,190	0.0121	0.9879	29.68	
80.5	96,807	20,731	0.2141	0.7859	29.32	
81.5	76,076	942	0.0124	0.9876	23.04	
82.5	74,582	3,385	0.0454	0.9546	22.76	
83.5	71,198	188	0.0026	0.9974	21.72	
84.5	71,009	68	0.0010	0.9990	21.67	
85.5	70,942	1,204	0.0170	0.9830	21.64	
86.5	58,289	161	0.0028	0.9972	21.28	
87.5	58,128	574	0.0099	0.9901	21.22	
88.5	57,554		0.0000	1.0000	21.01	
89.5	57,554	14,239	0.2474	0.7526	21.01	
90.5	18,616	28	0.0015	0.9985	15.81	
91.5	2,363		0.0000	1.0000	15.79	
92.5	91		0.0000	1.0000	15.79	
93.5					15.79	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 244 of 317

DUKE ENERGY PROGRESS
ACCOUNT 362 STATION EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1902-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	689,708,060	7,920,804	0.0115	0.9885	100.00
0.5	649,926,738	390,280	0.0006	0.9994	98.85
1.5	627,094,362	1,297,233	0.0021	0.9979	98.79
2.5	609,693,865	3,461,276	0.0057	0.9943	98.59
3.5	591,074,842	2,599,829	0.0044	0.9956	98.03
4.5	562,534,460	3,597,191	0.0064	0.9936	97.60
5.5	514,468,742	2,907,611	0.0057	0.9943	96.97
6.5	483,729,569	3,394,329	0.0070	0.9930	96.42
7.5	454,926,771	2,718,434	0.0060	0.9940	95.75
8.5	423,541,826	4,043,395	0.0095	0.9905	95.18
9.5	403,785,155	3,905,240	0.0097	0.9903	94.27
10.5	388,541,343	2,910,364	0.0075	0.9925	93.36
11.5	377,073,048	3,496,829	0.0093	0.9907	92.66
12.5	363,914,087	1,876,702	0.0052	0.9948	91.80
13.5	347,634,924	3,666,715	0.0105	0.9895	91.32
14.5	324,783,813	2,959,669	0.0091	0.9909	90.36
15.5	293,767,596	1,660,948	0.0057	0.9943	89.54
16.5	267,230,287	2,742,971	0.0103	0.9897	89.03
17.5	247,873,176	4,022,839	0.0162	0.9838	88.12
18.5	230,369,750	4,739,667	0.0206	0.9794	86.69
19.5	218,287,406	3,020,693	0.0138	0.9862	84.90
20.5	208,947,698	2,408,693	0.0115	0.9885	83.73
21.5	201,257,479	3,433,752	0.0171	0.9829	82.76
22.5	190,084,689	2,270,686	0.0119	0.9881	81.35
23.5	178,840,378	2,068,418	0.0116	0.9884	80.38
24.5	166,485,967	2,239,120	0.0134	0.9866	79.45
25.5	157,609,545	2,456,734	0.0156	0.9844	78.38
26.5	144,132,042	1,881,794	0.0131	0.9869	77.16
27.5	132,434,051	1,936,073	0.0146	0.9854	76.15
28.5	115,814,903	1,651,563	0.0143	0.9857	75.04
29.5	104,685,136	1,607,424	0.0154	0.9846	73.97
30.5	94,758,666	1,023,303	0.0108	0.9892	72.83
31.5	88,793,282	1,484,559	0.0167	0.9833	72.05
32.5	82,001,435	1,368,305	0.0167	0.9833	70.84
33.5	71,777,524	1,098,511	0.0153	0.9847	69.66
34.5	65,279,069	881,328	0.0135	0.9865	68.59
35.5	62,585,866	1,190,716	0.0190	0.9810	67.67
36.5	58,077,694	1,066,356	0.0184	0.9816	66.38
37.5	52,616,585	798,659	0.0152	0.9848	65.16
38.5	48,523,684	740,199	0.0153	0.9847	64.17

DUKE ENERGY PROGRESS
ACCOUNT 362 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1902-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	44,007,377	758,740	0.0172	0.9828	63.19
40.5	39,043,084	932,463	0.0239	0.9761	62.10
41.5	35,173,179	597,280	0.0170	0.9830	60.62
42.5	30,538,337	730,562	0.0239	0.9761	59.59
43.5	26,716,729	389,551	0.0146	0.9854	58.17
44.5	23,122,804	462,117	0.0200	0.9800	57.32
45.5	20,280,848	727,127	0.0359	0.9641	56.17
46.5	17,367,177	338,043	0.0195	0.9805	54.16
47.5	15,001,528	520,569	0.0347	0.9653	53.10
48.5	12,985,168	280,938	0.0216	0.9784	51.26
49.5	11,363,538	500,602	0.0441	0.9559	50.15
50.5	9,575,438	425,650	0.0445	0.9555	47.94
51.5	8,562,781	536,158	0.0626	0.9374	45.81
52.5	7,342,459	99,496	0.0136	0.9864	42.94
53.5	6,923,093	173,596	0.0251	0.9749	42.36
54.5	6,468,230	516,342	0.0798	0.9202	41.30
55.5	5,342,161	371,710	0.0696	0.9304	38.00
56.5	4,792,484	239,785	0.0500	0.9500	35.36
57.5	4,368,023	146,883	0.0336	0.9664	33.59
58.5	4,031,186	112,860	0.0280	0.9720	32.46
59.5	3,423,871	75,655	0.0221	0.9779	31.55
60.5	2,845,797	97,281	0.0342	0.9658	30.85
61.5	2,700,656	41,160	0.0152	0.9848	29.80
62.5	2,482,598	52,493	0.0211	0.9789	29.34
63.5	2,089,177	49,320	0.0236	0.9764	28.72
64.5	1,861,828	30,043	0.0161	0.9839	28.05
65.5	1,641,825	69,374	0.0423	0.9577	27.59
66.5	1,319,664	135,240	0.1025	0.8975	26.43
67.5	782,357	8,725	0.0112	0.9888	23.72
68.5	597,710	7,764	0.0130	0.9870	23.45
69.5	583,772	7,699	0.0132	0.9868	23.15
70.5	566,268	27,120	0.0479	0.9521	22.84
71.5	528,521	5,736	0.0109	0.9891	21.75
72.5	522,447	79,539	0.1522	0.8478	21.51
73.5	431,934	20,756	0.0481	0.9519	18.24
74.5	388,120	16,348	0.0421	0.9579	17.36
75.5	312,320	388	0.0012	0.9988	16.63
76.5	291,121	532	0.0018	0.9982	16.61
77.5	274,604	142	0.0005	0.9995	16.58
78.5	274,333	29,471	0.1074	0.8926	16.57

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 247 of 317

DUKE ENERGY PROGRESS
ACCOUNT 362 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1902-2016			EXPERIENCE BAND 1954-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	238,428	245	0.0010	0.9990	14.79	
80.5	161,867	1,140	0.0070	0.9930	14.78	
81.5	152,980	11,710	0.0765	0.9235	14.67	
82.5	136,967	9,277	0.0677	0.9323	13.55	
83.5	127,575	1,938	0.0152	0.9848	12.63	
84.5	125,598	8,212	0.0654	0.9346	12.44	
85.5	116,938	87	0.0007	0.9993	11.63	
86.5	105,029	621	0.0059	0.9941	11.62	
87.5	101,951	2,243	0.0220	0.9780	11.55	
88.5	94,847		0.0000	1.0000	11.29	
89.5	75,873	213	0.0028	0.9972	11.29	
90.5	72,539		0.0000	1.0000	11.26	
91.5	35,720		0.0000	1.0000	11.26	
92.5	26,072		0.0000	1.0000	11.26	
93.5	24,835		0.0000	1.0000	11.26	
94.5	20,925	17,943	0.8575	0.1425	11.26	
95.5	2,057		0.0000	1.0000	1.61	
96.5	2,057		0.0000	1.0000	1.61	
97.5	2,057		0.0000	1.0000	1.61	
98.5	2,057		0.0000	1.0000	1.61	
99.5	2,057		0.0000	1.0000	1.61	
100.5	2,057		0.0000	1.0000	1.61	
101.5	2,057		0.0000	1.0000	1.61	
102.5	2,057		0.0000	1.0000	1.61	
103.5	2,057		0.0000	1.0000	1.61	
104.5	2,057		0.0000	1.0000	1.61	
105.5	2,057		0.0000	1.0000	1.61	
106.5	2,057		0.0000	1.0000	1.61	
107.5					1.61	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 248 of 317

DUKE ENERGY PROGRESS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1909-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	621,125,850	7,911,144	0.0127	0.9873	100.00
0.5	586,736,195	241,071	0.0004	0.9996	98.73
1.5	567,239,265	739,359	0.0013	0.9987	98.69
2.5	555,107,227	2,689,934	0.0048	0.9952	98.56
3.5	541,850,158	1,710,697	0.0032	0.9968	98.08
4.5	516,983,768	2,476,187	0.0048	0.9952	97.77
5.5	473,348,401	2,063,664	0.0044	0.9956	97.30
6.5	446,873,287	2,209,817	0.0049	0.9951	96.88
7.5	423,035,307	2,070,370	0.0049	0.9951	96.40
8.5	395,056,567	3,528,958	0.0089	0.9911	95.93
9.5	378,877,477	3,193,709	0.0084	0.9916	95.07
10.5	366,411,536	2,455,680	0.0067	0.9933	94.27
11.5	356,432,110	3,189,013	0.0089	0.9911	93.64
12.5	344,547,667	1,566,192	0.0045	0.9955	92.80
13.5	328,853,463	3,240,426	0.0099	0.9901	92.38
14.5	307,037,075	2,310,986	0.0075	0.9925	91.47
15.5	277,772,703	1,306,859	0.0047	0.9953	90.78
16.5	252,362,170	2,399,002	0.0095	0.9905	90.35
17.5	233,970,370	3,512,946	0.0150	0.9850	89.49
18.5	217,297,612	3,929,189	0.0181	0.9819	88.15
19.5	206,895,572	2,640,053	0.0128	0.9872	86.55
20.5	198,912,605	2,008,739	0.0101	0.9899	85.45
21.5	191,966,499	3,002,974	0.0156	0.9844	84.59
22.5	181,684,747	1,690,375	0.0093	0.9907	83.26
23.5	171,966,960	1,650,073	0.0096	0.9904	82.49
24.5	160,300,258	1,904,991	0.0119	0.9881	81.70
25.5	152,243,672	1,917,250	0.0126	0.9874	80.73
26.5	139,697,336	1,670,621	0.0120	0.9880	79.71
27.5	129,059,973	1,708,127	0.0132	0.9868	78.76
28.5	112,852,680	1,590,064	0.0141	0.9859	77.71
29.5	101,730,361	1,494,503	0.0147	0.9853	76.62
30.5	91,703,764	845,181	0.0092	0.9908	75.49
31.5	85,826,310	1,315,352	0.0153	0.9847	74.80
32.5	79,153,832	1,116,038	0.0141	0.9859	73.65
33.5	69,182,185	909,688	0.0131	0.9869	72.61
34.5	62,909,320	750,834	0.0119	0.9881	71.66
35.5	60,312,090	1,024,043	0.0170	0.9830	70.80
36.5	55,950,427	957,017	0.0171	0.9829	69.60
37.5	50,655,237	715,801	0.0141	0.9859	68.41
38.5	46,585,503	672,603	0.0144	0.9856	67.44

DUKE ENERGY PROGRESS
ACCOUNT 362 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1909-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	42,140,707	690,644	0.0164	0.9836	66.47
40.5	37,345,304	845,889	0.0227	0.9773	65.38
41.5	33,516,198	452,404	0.0135	0.9865	63.90
42.5	29,041,933	583,857	0.0201	0.9799	63.04
43.5	25,365,352	268,393	0.0106	0.9894	61.77
44.5	21,821,553	332,934	0.0153	0.9847	61.12
45.5	19,106,964	598,398	0.0313	0.9687	60.18
46.5	16,331,392	219,097	0.0134	0.9866	58.30
47.5	14,098,557	389,087	0.0276	0.9724	57.52
48.5	12,213,834	190,989	0.0156	0.9844	55.93
49.5	10,700,121	485,994	0.0454	0.9546	55.06
50.5	8,934,905	327,050	0.0366	0.9634	52.55
51.5	8,062,040	487,739	0.0605	0.9395	50.63
52.5	6,908,871	93,127	0.0135	0.9865	47.57
53.5	6,533,527	155,461	0.0238	0.9762	46.93
54.5	6,148,758	498,371	0.0811	0.9189	45.81
55.5	5,068,791	369,317	0.0729	0.9271	42.10
56.5	4,521,583	235,907	0.0522	0.9478	39.03
57.5	4,101,702	101,516	0.0247	0.9753	36.99
58.5	3,841,269	102,266	0.0266	0.9734	36.08
59.5	3,244,842	54,661	0.0168	0.9832	35.12
60.5	2,690,181	92,879	0.0345	0.9655	34.53
61.5	2,551,381	37,767	0.0148	0.9852	33.33
62.5	2,336,847	43,766	0.0187	0.9813	32.84
63.5	1,952,153	49,320	0.0253	0.9747	32.23
64.5	1,754,763	26,152	0.0149	0.9851	31.41
65.5	1,538,651	69,374	0.0451	0.9549	30.94
66.5	1,216,877	69,999	0.0575	0.9425	29.55
67.5	755,587	6,207	0.0082	0.9918	27.85
68.5	573,458	4,282	0.0075	0.9925	27.62
69.5	563,002	2,107	0.0037	0.9963	27.41
70.5	551,090	17,379	0.0315	0.9685	27.31
71.5	523,084	2,336	0.0045	0.9955	26.45
72.5	520,410	77,537	0.1490	0.8510	26.33
73.5	431,899	20,721	0.0480	0.9520	22.41
74.5	388,120	16,348	0.0421	0.9579	21.33
75.5	312,320	388	0.0012	0.9988	20.43
76.5	291,121	532	0.0018	0.9982	20.41
77.5	274,604	142	0.0005	0.9995	20.37
78.5	274,333	29,471	0.1074	0.8926	20.36

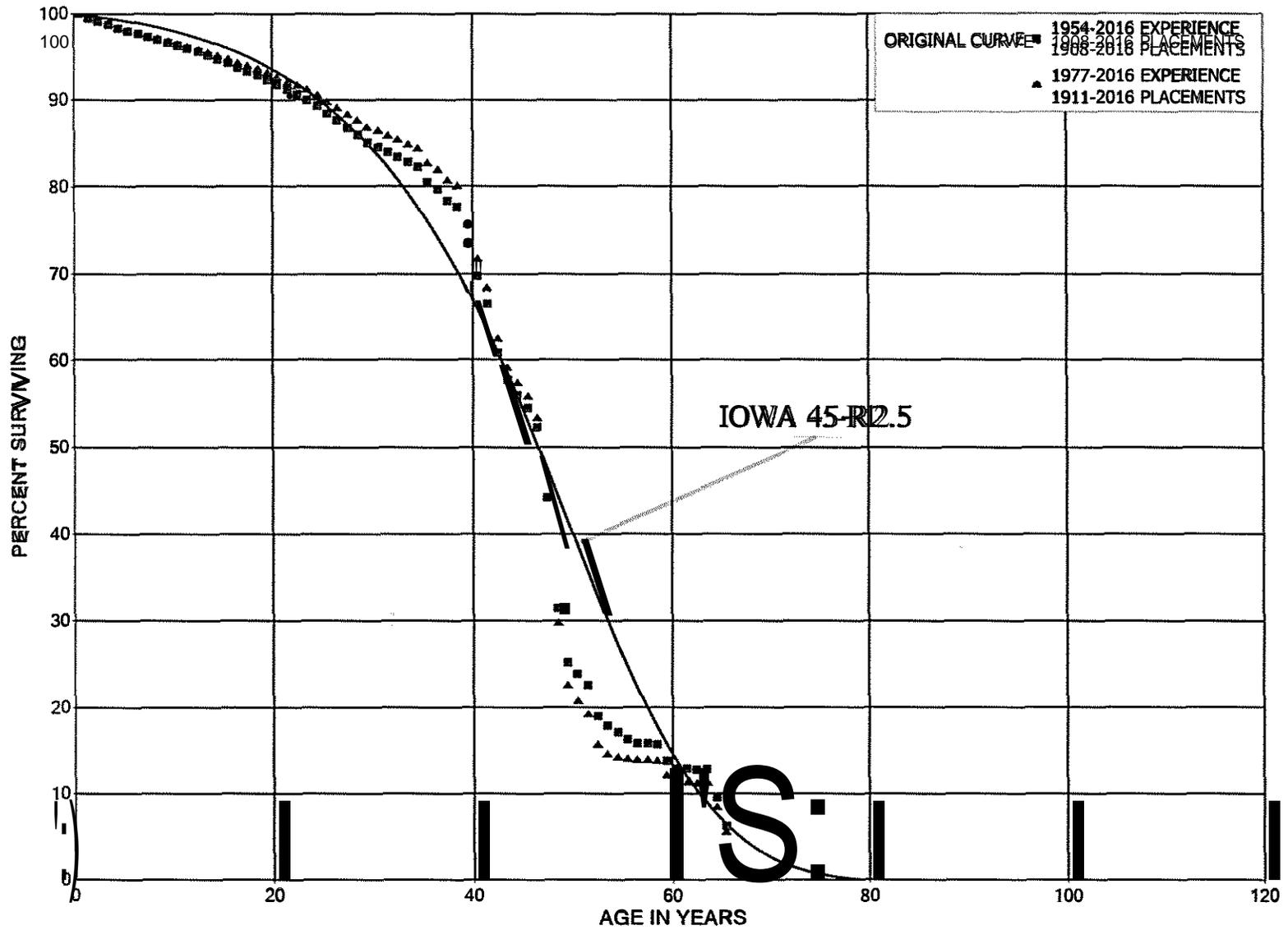
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 250 of 317

DUKE ENERGY PROGRESS
ACCOUNT 362 STATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1909-2016			EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	238,428	245	0.0010	0.9990	18.17	
80.5	161,867	1,140	0.0070	0.9930	18.16	
81.5	152,980	11,710	0.0765	0.9235	18.03	
82.5	136,967	9,277	0.0677	0.9323	16.65	
83.5	127,575	1,938	0.0152	0.9848	15.52	
84.5	125,598	8,212	0.0654	0.9346	15.28	
85.5	116,938	87	0.0007	0.9993	14.28	
86.5	105,029	621	0.0059	0.9941	14.27	
87.5	101,951	2,243	0.0220	0.9780	14.19	
88.5	94,847		0.0000	1.0000	13.88	
89.5	75,873	213	0.0028	0.9972	13.88	
90.5	72,539		0.0000	1.0000	13.84	
91.5	35,720		0.0000	1.0000	13.84	
92.5	26,072		0.0000	1.0000	13.84	
93.5	24,835		0.0000	1.0000	13.84	
94.5	20,925	17,943	0.8575	0.1425	13.84	
95.5	2,057		0.0000	1.0000	1.97	
96.5	2,057		0.0000	1.0000	1.97	
97.5	2,057		0.0000	1.0000	1.97	
98.5	2,057		0.0000	1.0000	1.97	
99.5	2,057		0.0000	1.0000	1.97	
100.5	2,057		0.0000	1.0000	1.97	
101.5	2,057		0.0000	1.0000	1.97	
102.5	2,057		0.0000	1.0000	1.97	
103.5	2,057		0.0000	1.0000	1.97	
104.5	2,057		0.0000	1.0000	1.97	
105.5	2,057		0.0000	1.0000	1.97	
106.5	2,057		0.0000	1.0000	1.97	
107.5					1.97	

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 251 of 317

DUKE ENERGY PROGRESS
ACCOUNT 364 POLES, TOWERS AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VIL-189

Duke Energy Progress
December 31, 2016

DOKE ENERGY PROGRESS

ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SORV BEGIN OF INTERVAL
0.0	795,179,951	472,656	0.0006	0.9994	100.00
0.5	759,853,923	3,871,139	0.0051	0.9949	99.94
1.5	754,821,361	2,750,903	0.0036	0.9964	99.43
2.5	703,289,887	2,361,711	0.0034	0.9966	99.07
3.5	696,331,239	2,898,713	0.0042	0.9958	98.74
4.5	670,408,887	2,334,489	0.0035	0.9965	98.33
5.5	639,230,899	2,347,962	0.0037	0.9963	97.98
6.5	601,300,462	2,034,822	0.0034	0.9966	97.62
7.5	582,418,823	1,874,560	0.0032	0.9968	97.29
8.5	565,627,613	1,819,887	0.0032	0.9968	96.98
9.5	550,864,581	1,894,451	0.0034	0.9966	96.67
10.5	533,473,370	2,097,784	0.0039	0.9961	96.34
11.5	514,775,203	2,033,914	0.0040	0.9960	95.96
12.5	494,213,401	1,960,277	0.0040	0.9960	95.58
13.5	471,318,603	2,259,795	0.0048	0.9952	95.20
14.5	455,357,801	2,321,903	0.0051	0.9949	94.74
15.5	426,641,457	2,206,005	0.0052	0.9948	94.26
16.5	411,720,715	1,918,047	0.0047	0.9953	93.77
17.5	367,033,319	1,793,713	0.0049	0.9951	93.33
18.5	360,905,100	2,098,760	0.0058	0.9942	92.88
19.5	344,985,284	2,325,718	0.0067	0.9933	92.34
20.5	295,771,588	1,790,348	0.0061	0.9939	91.72
21.5	281,062,329	1,790,165	0.0064	0.9936	91.16
22.5	268,066,624	1,794,741	0.0067	0.9933	90.58
23.5	254,967,120	2,089,274	0.0082	0.9918	89.97
24.5	239,977,485	2,272,180	0.0095	0.9905	89.24
25.5	220,846,040	2,047,574	0.0093	0.9907	88.39
26.5	204,523,311	1,874,309	0.0092	0.9908	87.57
27.5	187,505,365	1,731,183	0.0092	0.9908	86.77
28.5	170,310,780	1,687,416	0.0099	0.9901	85.97
29.5	152,436,907	1,068,007	0.0070	0.9930	85.12
30.5	137,600,609	941,467	0.0068	0.9932	84.52
31.5	124,061,964	859,893	0.0069	0.9931	83.94
32.5	112,525,329	771,552	0.0069	0.9931	83.36
33.5	101,586,711	671,586	0.0066	0.9934	82.79
34.5	91,281,975	1,947,515	0.0213	0.9787	82.24
35.5	80,443,692	800,483	0.0100	0.9900	80.49
36.5	73,246,696	1,184,329	0.0162	0.9838	79.69
37.5	66,588,758	581,703	0.0087	0.9913	78.40
38.5	59,963,166	3,210,562	0.0535	0.9465	77.71

DUKE ENERGY PROGRESS
ACCOUNT 364 POLES, TOWERS AND FIXTURES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	51,898,590	2,732,650	0.0527	0.9473	73.55
40.5	44,065,928	2,011,951	0.0457	0.9543	69.68
41.5	38,583,256	3,271,666	0.0848	0.9152	66.50
42.5	30,433,800	1,542,706	0.0507	0.9493	60.86
43.5	22,737,381	699,942	0.0308	0.9692	57.77
44.5	17,857,069	473,548	0.0265	0.9735	56.00
45.5	13,556,813	565,568	0.0417	0.9583	54.51
46.5	10,217,636	1,587,342	0.1554	0.8446	52.24
47.5	7,881,627	2,279,105	0.2892	0.7108	44.12
48.5	4,853,611	950,402	0.1958	0.8042	31.36
49.5	3,101,231	169,330	0.0546	0.9454	25.22
50.5	2,247,824	126,895	0.0565	0.9435	23.84
51.5	1,715,633	274,057	0.1597	0.8403	22.50
52.5	1,132,374	67,101	0.0593	0.9407	18.90
53.5	994,132	40,036	0.0403	0.9597	17.78
54.5	954,097	52,600	0.0551	0.9449	17.07
55.5	901,497	20,621	0.0229	0.9771	16.13
56.5	880,876	1,060	0.0012	0.9988	15.76
57.5	879,816	9,520	0.0108	0.9892	15.74
58.5	870,296	101,175	0.1163	0.8837	15.57
59.5	769,120	52,066	0.0677	0.9323	13.76
60.5	717,054	1,230	0.0017	0.9983	12.83
61.5	715,824	2,769	0.0039	0.9961	12.81
62.5	710,400	390	0.0005	0.9995	12.76
63.5	710,010	181,266	0.2553	0.7447	12.75
64.5	526,900	181,908	0.3452	0.6548	9.49
65.5	344,992	133,574	0.3872	0.6128	6.22
66.5	211,336	87,402	0.4136	0.5864	3.81
67.5	123,903	62,862	0.5074	0.4926	2.23
68.5	61,041	58,625	0.9604	0.0396	1.10
69.5	2,415	0	0.0000	1.0000	0.04
70.5	2,238	0	0.0000	1.0000	0.04
71.5	2,238	2,228	0.9957	0.0043	0.04
72.5	10	0	0.0010	0.9990	0.00
73.5	10	0	0.0052	0.9948	0.00
74.5	10	0	0.0063	0.9937	0.00
75.5	9	0	0.0000	1.0000	0.00
76.5	9	0	0.0000	1.0000	0.00
77.5	9	0	0.0000	1.0000	0.00
78.5	9	0	0.0000	1.0000	0.00
79.5	9	0	0.0000	1.0000	0.00
80.5	9	0	0.0000	1.0000	0.00
81.5	9	9	1.0000	0.0000	0.00
82.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 254 of 317

DUKE ENERGY PROGRESS

ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1911-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	716,686,722	385,807	0.0005	0.9995	100.00
0.5	685,355,449	3,686,436	0.0054	0.9946	99.95
1.5	684,278,768	2,551,399	0.0037	0.9963	99.41
2.5	637,210,707	2,092,918	0.0033	0.9967	99.04
3.5	633,573,130	2,679,590	0.0042	0.9958	98.71
4.5	612,910,517	2,094,744	0.0034	0.9966	98.30
5.5	586,249,132	2,091,808	0.0036	0.9964	97.96
6.5	552,855,865	1,766,752	0.0032	0.9968	97.61
7.5	537,426,110	1,549,403	0.0029	0.9971	97.30
8.5	524,115,050	1,546,579	0.0030	0.9970	97.02
9.5	512,831,368	1,561,949	0.0030	0.9970	96.73
10.5	498,733,784	1,756,762	0.0035	0.9965	96.44
11.5	482,677,459	1,662,616	0.0034	0.9966	96.10
12.5	464,890,279	1,560,855	0.0034	0.9966	95.77
13.5	443,875,764	1,811,498	0.0041	0.9959	95.44
14.5	429,923,894	1,871,299	0.0044	0.9956	95.05
15.5	403,036,814	1,763,237	0.0044	0.9956	94.64
16.5	389,223,286	1,534,015	0.0039	0.9961	94.23
17.5	348,408,169	1,406,191	0.0040	0.9960	93.86
18.5	343,534,972	1,664,421	0.0048	0.9952	93.48
19.5	329,147,667	1,945,747	0.0059	0.9941	93.02
20.5	281,129,643	1,414,442	0.0050	0.9950	92.47
21.5	267,816,810	1,416,670	0.0053	0.9947	92.01
22.5	256,290,775	1,408,334	0.0055	0.9945	91.52
23.5	244,544,328	1,722,461	0.0070	0.9930	91.02
24.5	230,895,043	1,893,861	0.0082	0.9918	90.38
25.5	213,374,731	1,711,478	0.0080	0.9920	89.64
26.5	200,829,642	1,606,832	0.0080	0.9920	88.92
27.5	183,813,549	1,503,824	0.0082	0.9918	88.21
28.5	166,858,042	1,452,678	0.0087	0.9913	87.48
29.5	149,391,811	847,055	0.0057	0.9943	86.72
30.5	134,931,600	767,014	0.0057	0.9943	86.23
31.5	121,555,002	705,853	0.0058	0.9942	85.74
32.5	110,112,013	628,438	0.0057	0.9943	85.24
33.5	99,302,545	554,291	0.0056	0.9944	84.76
34.5	89,135,912	1,763,135	0.0198	0.9802	84.28
35.5	78,526,367	698,035	0.0089	0.9911	82.62
36.5	71,540,197	1,133,642	0.0158	0.9842	81.88
37.5	64,940,899	497,919	0.0077	0.9923	80.58
38.5	58,470,929	3,153,919	0.0539	0.9461	79.97

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 255 of 317

DUKE ENERGY PROGRESS

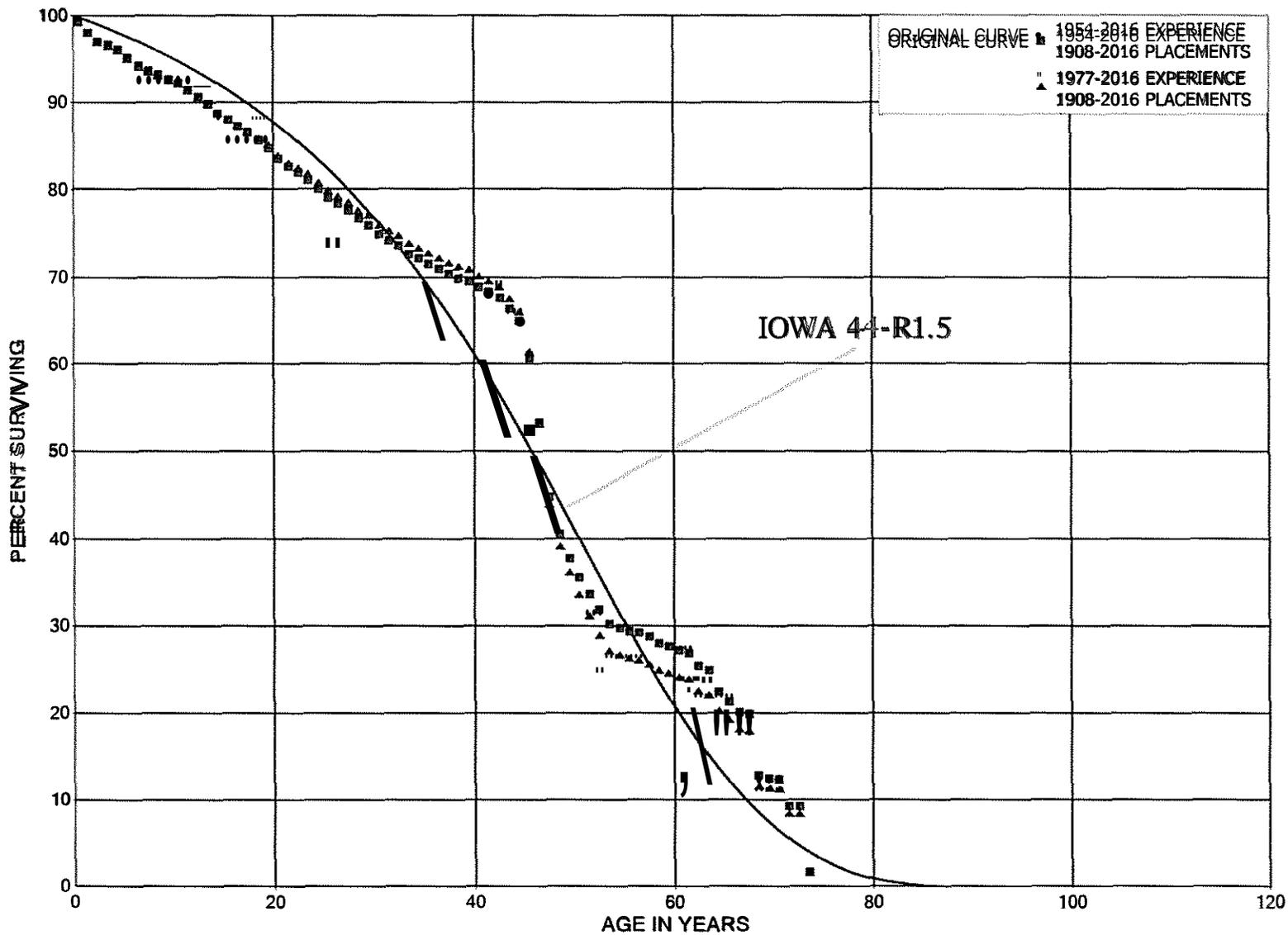
ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1911-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	50,581,157	2,708,859	0.0536	0.9464	75.65
40.5	42,788,584	1,986,838	0.0464	0.9536	71.60
41.5	37,332,638	3,243,917	0.0869	0.9131	68.28
42.5	29,212,719	1,521,176	0.0521	0.9479	62.34
43.5	21,538,902	648,235	0.0301	0.9699	59.10
44.5	16,711,942	455,437	0.0273	0.9727	57.32
45.5	12,454,488	542,796	0.0436	0.9564	55.76
46.5	9,162,461	1,572,305	0.1716	0.8284	53.33
47.5	6,874,154	2,272,745	0.3306	0.6694	44.18
48.5	3,872,537	944,609	0.2439	0.7561	29.57
49.5	2,137,596	166,248	0.0778	0.9222	22.36
50.5	1,715,510	126,037	0.0735	0.9265	20.62
51.5	1,432,953	268,932	0.1877	0.8123	19.10
52.5	896,371	62,219	0.0694	0.9306	15.52
53.5	812,795	19,662	0.0242	0.9758	14.44
54.5	846,571	12,206	0.0144	0.9856	14.09
55.5	875,912	10,290	0.0117	0.9883	13.89
56.5	880,834	1,060	0.0012	0.9988	13.73
57.5	879,774	9,487	0.0108	0.9892	13.71
58.5	870,286	101,175	0.1163	0.8837	13.56
59.5	769,111	52,066	0.0677	0.9323	11.98
60.5	717,044	1,230	0.0017	0.9983	11.17
61.5	715,814	2,769	0.0039	0.9961	11.15
62.5	710,391	390	0.0005	0.9995	11.11
63.5	710,001	181,266	0.2553	0.7447	11.10
64.5	526,890	181,908	0.3452	0.6548	8.27
65.5	344,992	133,574	0.3872	0.6128	5.41
66.5	211,336	87,402	0.4136	0.5864	3.32
67.5	123,903	62,862	0.5074	0.4926	1.95
68.5	61,041	58,625	0.9604	0.0396	0.96
69.5	2,415	0	0.0000	1.0000	0.04
70.5	2,238	0	0.0000	1.0000	0.04
71.5	2,238	2,228	0.9957	0.0043	0.04
72.5	10	0	0.0010	0.9990	0.00
73.5	10	0	0.0052	0.9948	0.00
74.5	10	0	0.0063	0.9937	0.00
75.5	9	0	0.0000	1.0000	0.00
76.5	9	0	0.0000	1.0000	0.00
77.5	9	0	0.0000	1.0000	0.00
78.5	9	0	0.0000	1.0000	0.00
79.5	9	0	0.0000	1.0000	0.00
80.5	9	0	0.0000	1.0000	0.00
81.5	9	9	1.0000	0.0000	0.00
82.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 256 of 317

DUKE ENERGY PROGRESS
ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,107,772,510	9,179,163	0.0083	0.9917	100.00
0.5	1,004,929,863	12,729,096	0.0127	0.9873	99.17
1.5	942,316,200	9,370,289	0.0099	0.9901	97.92
2.5	881,392,839	3,252,887	0.0037	0.9963	96.94
3.5	854,731,137	4,524,924	0.0053	0.9947	96.58
4.5	828,106,490	71878,198	0.0095	0.9905	96.07
5.5	793,344,088	8,428,923	0.0106	0.9894	95.16
6.5	736,445,351	3,992,571	0.0054	0.9946	94.15
7.5	710,045,356	3,115,188	0.0044	0.9956	93.64
8.5	687,183,554	4,391,121	0.0064	0.9936	93.23
9.5	665,864,548	3,090,688	0.0046	0.9954	92.63
10.5	648,354,336	5,652,964	0.0087	0.9913	92.20
11.5	623,105,212	5,287,633	0.0085	0.9915	91.40
12.5	599,374,137	5,685,808	0.0095	0.9905	90.62
13.5	565,731,090	6,924,711	0.0122	0.9878	89.76
14.5	533,942,443	4,629,872	0.0087	0.9913	88.66
15.5	487,377,690	4,105,928	0.0084	0.9916	87.89
16.5	465,804,392	3,591,991	0.0077	0.9923	87.15
17.5	389,155,942	4,005,677	0.0103	0.9897	86.48
18.5	378,255,294	3,936,318	0.0104	0.9896	85.59
19.5	361,428,684	5,085,586	0.0141	0.9859	84.70
20.5	305,965,353	3,444,753	0.0113	0.9887	83.51
21.5	289,674,765	2,325,960	0.0080	0.9920	82.57
22.5	276,270,050	2,702,213	0.0098	0.9902	81.91
23.5	266,576,182	3,525,005	0.0132	0.9868	81.10
24.5	251,512,054	3,027,851	0.0120	0.9880	80.03
25.5	234,784,861	2,096,117	0.0089	0.9911	79.07
26.5	213,530,343	2,075,303	0.0097	0.9903	78.36
27.5	191,263,713	2,160,456	0.0113	0.9887	77.60
28.5	175,196,081	1,684,476	0.0096	0.9904	76.72
29.5	161,205,627	2,312,480	0.0143	0.9857	75.99
30.5	149,775,078	1,371,975	0.0092	0.9908	74.90
31.5	139,153,826	1,096,060	0.0079	0.9921	74.21
32.5	130,269,097	1,730,664	0.0133	0.9867	73.63
33.5	121,640,520	855,407	0.0070	0.9930	72.65
34.5	113,645,581	1,053,827	0.0093	0.9907	72.14
35.5	106,111,303	772,047	0.0073	0.9927	71.47
36.5	97,851,431	836,574	0.0085	0.9915	70.95
37.5	88,608,310	588,208	0.0066	0.9934	70.34
38.5	81,814,953	436,602	0.0053	0.9947	69.87

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 258 of 317

DUKE ENERGY PROGRESS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	77,871,774	768,713	0.0099	0.9901	69.50
40.5	75,341,795	615,951	0.0082	0.9918	68.82
41.5	71,184,147	631,916	0.0089	0.9911	68.25
42.5	62,914,922	1,193,159	0.0190	0.9810	67.65
43.5	57,529,568	1,269,371	0.0221	0.9779	66.36
44.5	51,066,442	3,285,199	0.0643	0.9357	64.90
45.5	38,337,046	4,694,878	0.1225	0.8775	60.72
46.5	30,053,731	4,817,113	0.1603	0.8397	53.29
47.5	21,646,675	2,071,434	0.0957	0.9043	44.75
48.5	17,172,779	1,165,425	0.0679	0.9321	40.47
49.5	12,622,491	735,490	0.0583	0.9417	37.72
50.5	9,239,208	506,846	0.0549	0.9451	35.52
51.5	7,134,104	364,288	0.0511	0.9489	33.57
52.5	5,605,317	293,729	0.0524	0.9476	31.86
53.5	5,100,877	76,924	0.0151	0.9849	30.19
54.5	4,828,273	64,307	0.0133	0.9867	29.73
55.5	4,554,414	31,998	0.0070	0.9930	29.34
56.5	4,391,823	68,474	0.0156	0.9844	29.13
57.5	4,253,787	105,376	0.0248	0.9752	28.68
58.5	4,133,040	58,311	0.0141	0.9859	27.97
59.5	4,047,341	59,715	0.0148	0.9852	27.57
60.5	3,965,243	43,248	0.0109	0.9891	27.17
61.5	3,915,779	207,954	0.0531	0.9469	26.87
62.5	3,707,826	89,895	0.0242	0.9758	25.44
63.5	3,617,930	353,720	0.0978	0.9022	24.83
64.5	3,264,210	167,884	0.0514	0.9486	22.40
65.5	3,096,326	171,540	0.0554	0.9446	21.25
66.5	2,924,786	34,224	0.0117	0.9883	20.07
67.5	2,890,562	1,042,548	0.3607	0.6393	19.83
68.5	1,848,014	36,308	0.0196	0.9804	12.68
69.5	1,811,706	19,063	0.0105	0.9895	12.43
70.5	1,792,644	458,957	0.2560	0.7440	12.30
71.5	1,333,686		0.0000	1.0000	9.15
72.5	1,333,686	1,105,593	0.8290	0.1710	9.15
73.5	228,093	228,092	1.0000	0.0000	1.57
74.5	1		0.0000	1.0000	0.00
75.5	1		0.0000	1.0000	0.00
76.5	1		0.0000	1.0000	0.00
77.5	1	1	0.6552	0.3448	0.00
78.5	1		0.0000	1.0000	0.00
79.5	1	1	1.0000		0.00
80.5					

DUKE ENERGY PROGRESS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,015,007,666	9,046,618	0.0089	0.9911	100.00
0.5	913,647,846	12,587,885	0.0138	0.9862	99.11
1.5	854,902,777	9,189,968	0.0107	0.9893	97.74
2.5	801,025,723	3,046,214	0.0038	0.9962	96.69
3.5	776,706,035	4,271,511	0.0055	0.9945	96.32
4.5	756,910,127	7,610,058	0.0101	0.9899	95.80
5.5	733,649,743	8,095,877	0.0110	0.9890	94.83
6.5	681,847,851	3,645,930	0.0053	0.9947	93.79
7.5	659,870,851	2,790,806	0.0042	0.9958	93.28
8.5	641,408,854	4,029,243	0.0063	0.9937	92.89
9.5	624,604,171	2,688,921	0.0043	0.9957	92.31
10.5	612,244,658	5,198,347	0.0085	0.9915	91.91
11.5	590,114,452	4,793,786	0.0081	0.9919	91.13
12.5	571,294,502	5,154,426	0.0090	0.9910	90.39
13.5	541,220,645	6,292,358	0.0116	0.9884	89.57
14.5	511,460,655	4,053,446	0.0079	0.9921	88.53
15.5	467,155,928	3,540,526	0.0076	0.9924	87.83
16.5	446,803,618	3,172,017	0.0071	0.9929	87.16
17.5	372,245,031	3,550,879	0.0095	0.9905	86.54
18.5	362,547,920	3,473,672	0.0096	0.9904	85.72
19.5	347,882,119	4,680,369	0.0135	0.9865	84.90
20.5	293,747,295	3,064,959	0.0104	0.9896	83.76
21.5	279,104,858	1,970,188	0.0071	0.9929	82.88
22.5	267,515,424	2,314,908	0.0087	0.9913	82.30
23.5	258,284,502	3,156,826	0.0122	0.9878	81.58
24.5	243,954,151	2,666,645	0.0109	0.9891	80.59
25.5	227,729,134	1,766,617	0.0078	0.9922	79.71
26.5	207,159,065	1,826,669	0.0088	0.9912	79.09
27.5	185,376,736	1,985,445	0.0107	0.9893	78.39
28.5	169,639,658	1,444,831	0.0085	0.9915	77.55
29.5	154,934,841	2,147,412	0.0139	0.9861	76.89
30.5	143,943,773	1,198,413	0.0083	0.9917	75.83
31.5	133,668,394	952,530	0.0071	0.9929	75.19
32.5	125,304,677	1,628,668	0.0130	0.9870	74.66
33.5	116,328,174	742,166	0.0064	0.9936	73.69
34.5	108,495,118	921,470	0.0085	0.9915	73.22
35.5	101,158,606	710,979	0.0070	0.9930	72.60
36.5	92,837,315	780,058	0.0084	0.9916	72.09
37.5	83,768,873	505,837	0.0060	0.9940	71.48
38.5	77,266,785	397,296	0.0051	0.9949	71.05

DUKE ENERGY PROGRESS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	73,553,593	743,726	0.0101	0.9899	70.68
40.5	71,100,940	593,193	0.0083	0.9917	69.97
41.5	67,001,800	596,872	0.0089	0.9911	69.38
42.5	58,803,175	1,175,975	0.0200	0.9800	68.77
43.5	53,547,742	1,259,230	0.0235	0.9765	67.39
44.5	47,174,138	3,260,865	0.0691	0.9309	65.81
45.5	34,508,808	4,658,025	0.1350	0.8650	61.26
46.5	27,371,186	4,806,313	0.1756	0.8244	52.99
47.5	18,990,265	2,068,643	0.1089	0.8911	43.68
48.5	14,714,086	1,138,097	0.0773	0.9227	38.93
49.5	10,301,273	734,953	0.0713	0.9287	35.91
50.5	7,054,280	505,727	0.0717	0.9283	33.35
51.5	5,110,313	364,260	0.0713	0.9287	30.96
52.5	4,785,043	293,723	0.0614	0.9386	28.75
53.5	4,280,609	76,877	0.0180	0.9820	26.99
54.5	4,008,052	64,307	0.0160	0.9840	26.50
55.5	3,752,736	31,998	0.0085	0.9915	26.08
56.5	4,049,369	68,474	0.0169	0.9831	25.86
57.5	3,911,353	105,376	0.0269	0.9731	25.42
58.5	3,790,606	58,311	0.0154	0.9846	24.73
59.5	3,932,999	59,715	0.0152	0.9848	24.35
60.5	3,857,796	43,248	0.0112	0.9888	23.98
61.5	3,813,385	207,954	0.0545	0.9455	23.72
62.5	3,605,431	89,895	0.0249	0.9751	22.42
63.5	3,515,536	289,327	0.0823	0.9177	21.86
64.5	3,263,662	167,884	0.0514	0.9486	20.06
65.5	3,095,778	171,540	0.0554	0.9446	19.03
66.5	2,924,238	34,224	0.0117	0.9883	17.98
67.5	2,890,014	1,042,548	0.3607	0.6393	17.77
68.5	1,848,014	36,308	0.0196	0.9804	11.36
69.5	1,811,706	19,063	0.0105	0.9895	11.13
70.5	1,792,644	458,957	0.2560	0.7440	11.02
71.5	1,333,686		0.0000	1.0000	8.20
72.5	1,333,686	1,105,593	0.8290	0.1710	8.20
73.5	228,093	228,092	1.0000	0.0000	1.40
74.5	1		0.0000	1.0000	0.00
75.5	1		0.0000	1.0000	0.00
76.5	1		0.0000	1.0000	0.00
77.5	1	1	0.6552	0.3448	0.00
78.5	1		0.0000	1.0000	0.00
79.5	1	1	1.0000		0.00
80.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 261 of 317

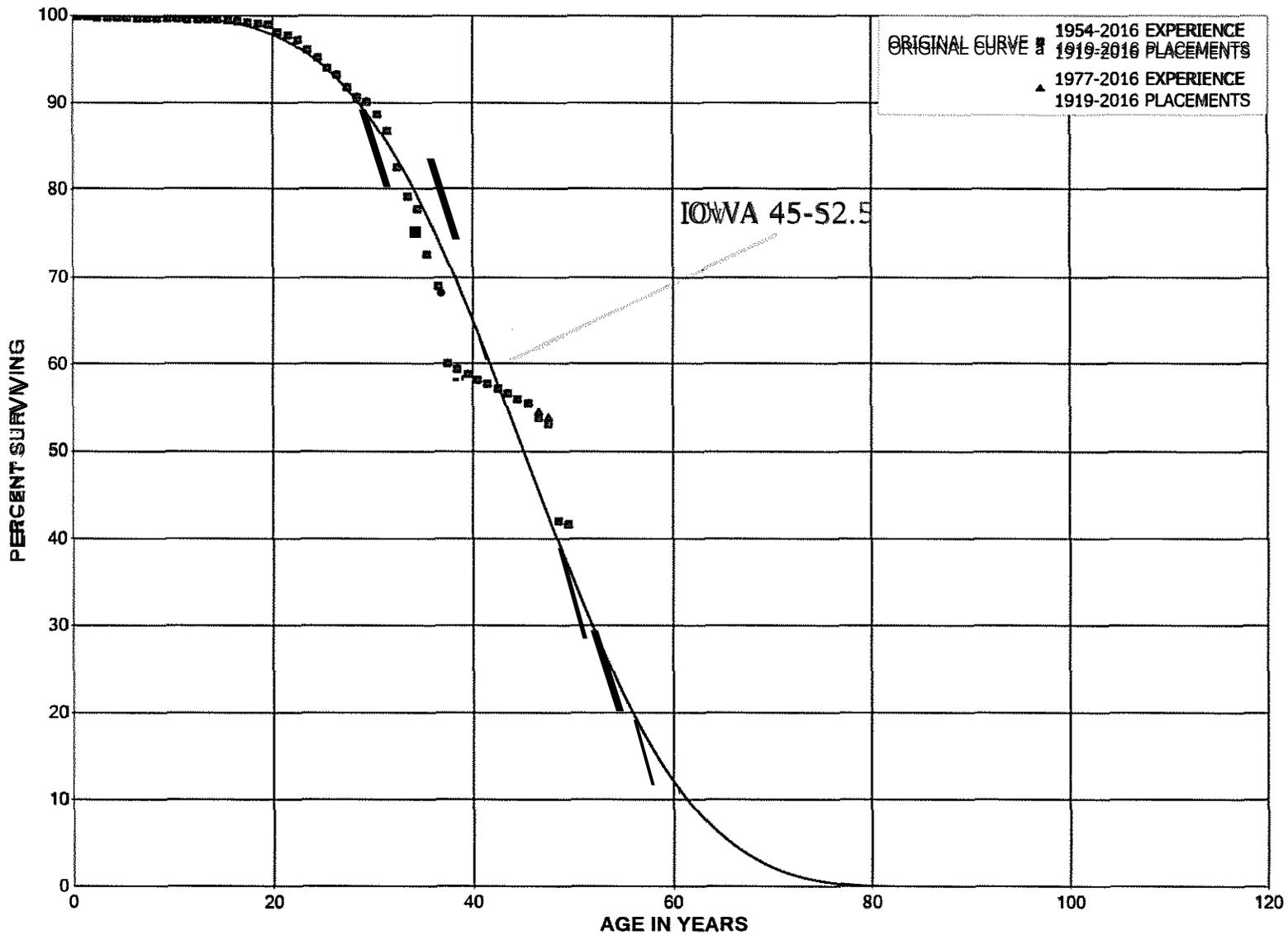


Gannett Fleming

WL-199

Duke Energy Progress
December 31, 2015

DUKE ENERGY PROGRESS
ACCOUNT 366 UNDERGROUND CONDUIT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 366 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	193,050,105	294,414	0.0015	0.9985	100.00
0.5	187,145,127	114,972	0.0006	0.9994	99.85
1.5	181,202,745	81,783	0.0005	0.9995	99.79
2.5	167,087,074	41,406	0.0002	0.9998	99.74
3.5	150,202,931	27,356	0.0002	0.9998	99.72
4.5	133,116,648	34,315	0.0003	0.9997	99.70
5.5	123,642,423	21,080	0.0002	0.9998	99.67
6.5	120,676,211	17,971	0.0001	0.9999	99.66
7.5	117,849,846	22,524	0.0002	0.9998	99.64
8.5	113,691,147	23,385	0.0002	0.9998	99.62
9.5	108,555,538	24,115	0.0002	0.9998	99.60
10.5	103,690,335	24,356	0.0002	0.9998	99.58
11.5	96,233,935	17,945	0.0002	0.9998	99.56
12.5	89,124,773	10,853	0.0001	0.9999	99.54
13.5	82,993,627	23,767	0.0003	0.9997	99.52
14.5	80,078,279	91,825	0.0011	0.9989	99.50
15.5	70,856,070	55,440	0.0008	0.9992	99.38
16.5	67,303,654	94,330	0.0014	0.9986	99.30
17.5	53,191,543	41,260	0.0008	0.9992	99.17
18.5	53,041,297	70,832	0.0013	0.9987	99.09
19.5	49,479,823	446,111	0.0090	0.9910	98.96
20.5	38,138,525	139,787	0.0037	0.9963	98.06
21.5	34,151,802	186,728	0.0055	0.9945	97.70
22.5	31,761,255	366,356	0.0115	0.9885	97.17
23.5	29,740,705	259,406	0.0087	0.9913	96.05
24.5	25,100,229	333,169	0.0133	0.9867	95.21
25.5	22,589,798	179,683	0.0080	0.9920	93.95
26.5	19,180,828	303,693	0.0158	0.9842	93.20
27.5	11,549,905	133,022	0.0115	0.9885	91.73
28.5	8,369,061	51,099	0.0061	0.9939	90.67
29.5	5,834,700	95,191	0.0163	0.9837	90.12
30.5	4,710,821	100,576	0.0213	0.9787	88.64
31.5	3,928,497	192,068	0.0489	0.9511	86.75
32.5	3,303,832	134,353	0.0407	0.9593	82.51
33.5	3,051,634	57,169	0.0187	0.9813	79.16
34.5	2,671,686	173,303	0.0649	0.9351	77.67
35.5	2,253,767	114,638	0.0509	0.9491	72.63
36.5	2,113,599	270,841	0.1281	0.8719	68.94
37.5	1,788,294	20,612	0.0115	0.9885	60.11
38.5	1,701,023	16,763	0.0099	0.9901	59.41

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 263 of 317

DUKE ENERGY PROGRESS

ACCOUNT 366 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,296,628	14,603	0.0113	0.9887	58.83
40.5	1,278,647	9,770	0.0076	0.9924	58.16
41.5	1,235,573	11,944	0.0097	0.9903	57.72
42.5	973,743	8,859	0.0091	0.9909	57.16
43.5	498,402	5,824	0.0117	0.9883	56.64
44.5	223,574	1,856	0.0083	0.9917	55.98
45.5	176,021	5,314	0.0302	0.9698	55.52
46.5	140,840	1,780	0.0126	0.9874	53.84
47.5	22,830	4,825	0.2114	0.7886	53.16
48.5	16,582	109	0.0066	0.9934	41.92
49.5	1,800		0.0000	1.0000	41.65
50.5	1,325	1,106	0.8347	0.1653	41.65
51.5	144		0.0000	1.0000	6.89
52.5	144		0.0000	1.0000	6.89
53.5	144		0.0000	1.0000	6.89
54.5	144		0.0000	1.0000	6.89
55.5	144		0.0000	1.0000	6.89
56.5	144		0.0000	1.0000	6.89
57.5	144		0.0000	1.0000	6.89
58.5	144		0.0000	1.0000	6.89
59.5	144		0.0000	1.0000	6.89
60.5	144	74	0.5138	0.4862	6.89
61.5	3		0.0000	1.0000	3.35
62.5	3		0.0000	1.0000	3.35
63.5	3		0.0000	1.0000	3.35
64.5	3		0.0000	1.0000	3.35
65.5	3		0.0000	1.0000	3.35
66.5	3		0.0000	1.0000	3.35
67.5	3		0.0000	1.0000	3.35
68.5	3		0.0000	1.0000	3.35
69.5	3		0.0000	1.0000	3.35
70.5	3		0.0000	1.0000	3.35
71.5	3	3	1.0000		3.35
72.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 264 of 317

DUKE ENERGY PROGRESS

ACCOUNT 366 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	190,061,042	292,793	0.0015	0.9985	100.00
0.5	184,408,428	113,685	0.0006	0.9994	99.85
1.5	178,641,890	80,053	0.0004	0.9996	99.78
2.5	164,824,637	40,951	0.0002	0.9998	99.74
3.5	148,515,071	26,422	0.0002	0.9998	99.71
4.5	131,762,897	34,058	0.0003	0.9997	99.70
5.5	122,529,496	20,340	0.0002	0.9998	99.67
6.5	119,734,649	17,829	0.0001	0.9999	99.65
7.5	117,180,073	22,431	0.0002	0.9998	99.64
8.5	113,166,212	23,312	0.0002	0.9998	99.62
9.5	108,161,542	24,028	0.0002	0.9998	99.60
10.5	103,345,134	22,719	0.0002	0.9998	99.58
11.5	95,943,194	17,867	0.0002	0.9998	99.56
12.5	88,840,442	10,418	0.0001	0.9999	99.54
13.5	82,713,470	23,321	0.0003	0.9997	99.53
14.5	79,802,714	91,517	0.0011	0.9989	99.50
15.5	70,589,057	55,303	0.0008	0.9992	99.38
16.5	67,047,461	94,272	0.0014	0.9986	99.31
17.5	53,176,137	41,260	0.0008	0.9992	99.17
18.5	53,026,051	70,639	0.0013	0.9987	99.09
19.5	49,464,771	446,111	0.0090	0.9910	98.96
20.5	38,123,509	139,447	0.0037	0.9963	98.07
21.5	34,149,899	186,075	0.0054	0.9946	97.71
22.5	31,760,347	366,328	0.0115	0.9885	97.17
23.5	29,737,494	259,154	0.0087	0.9913	96.05
24.5	25,094,828	333,151	0.0133	0.9867	95.22
25.5	22,584,566	179,552	0.0080	0.9920	93.95
26.5	19,176,054	301,194	0.0157	0.9843	93.21
27.5	11,546,539	133,015	0.0115	0.9885	91.74
28.5	8,365,702	51,071	0.0061	0.9939	90.68
29.5	5,831,369	95,180	0.0163	0.9837	90.13
30.5	4,707,501	100,576	0.0214	0.9786	88.66
31.5	3,925,177	192,068	0.0489	0.9511	86.77
32.5	3,300,512	134,353	0.0407	0.9593	82.52
33.5	3,048,314	57,169	0.0188	0.9812	79.16
34.5	2,668,289	173,303	0.0649	0.9351	77.68
35.5	2,250,370	114,638	0.0509	0.9491	72.63
36.5	2,110,202	270,841	0.1283	0.8717	68.93
37.5	1,784,897	20,612	0.0115	0.9885	60.08
38.5	1,697,626	16,763	0.0099	0.9901	59.39

DUKE ENERGY PROGRESS

ACCOUNT 366 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE, CONT.

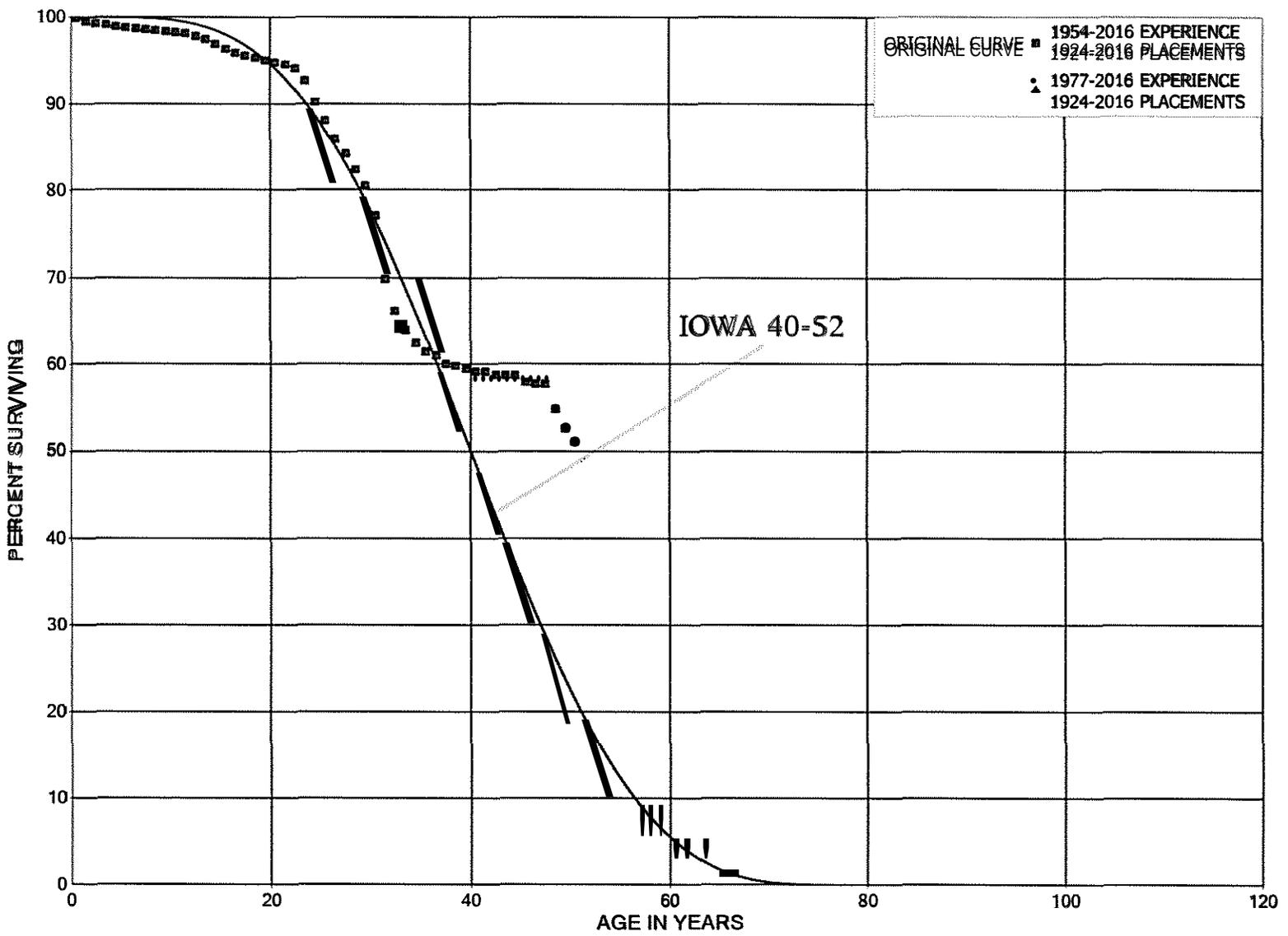
PLACEMENT BAND 1919-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,293,231	14,603	0.0113	0.9887	58.80
40.5	1,275,250	91770	0.0077	0.9923	58.14
41.5	1,232,176	11,944	0.0097	0.9903	57.69
42.5	970,346	8,859	0.0091	0.9909	57.13
43.5	495,005	5,824	0.0118	0.9882	56.61
44.5	220,177	1,856	0.0084	0.9916	55.95
45.5	172,624	3,100	0.0180	0.9820	55.48
46.5	139,657	1,780	0.0127	0.9873	54.48
47.5	21,647	4,825	0.2229	0.7771	53.78
48.5	15,399	109	0.0071	0.9929	41.80
49.5	617		0.0000	1.0000	41.50
50.5	1,248	1,106	0.8862	0.1138	41.50
51.5	67		0.0000	1.0000	4.72
52.5	67		0.0000	1.0000	4.72
53.5	67		0.0000	1.0000	4.72
54.5	67		0.0000	1.0000	4.72
55.5	67		0.0000	1.0000	4.72
56.5	67		0.0000	1.0000	4.72
57.5	144		0.0000	1.0000	4.72
58.5	144		0.0000	1.0000	4.72
59.5	144		0.0000	1.0000	4.72
60.5	144	74	0.5138	0.4862	4.72
61.5	3		0.0000	1.0000	2.30
62.5	3		0.0000	1.0000	2.30
63.5	3		0.0000	1.0000	2.30
64.5	3		0.0000	1.0000	2.30
65.5	3		0.0000	1.0000	2.30
66.5	3		0.0000	1.0000	2.30
67.5	3		0.0000	1.0000	2.30
68.5	3		0.0000	1.0000	2.30
69.5	3		0.0000	1.0000	2.30
70.5	3		0.0000	1.0000	2.30
71.5	3	3	1.0000		2.30
72.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 266 of 317

DUKE ENERGY PROGRESS
ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,174,100,201	11403,231	0.0012	0.9988	100.00
0.5	1,149,928,840	5,353,746	0.0047	0.9953	99.88
1.5	1,117,276,085	2,453,824	0.0022	0.9978	99.42
2.5	1,089,661,257	1,836,386	0.0017	0.9983	99.20
3.5	1,041,379,152	1,783,040	0.0017	0.9983	99.03
4.5	996,852,684	1,152,512	0.0012	0.9988	98.86
5.5	969,311,518	1,239,140	0.0013	0.9987	98.74
6.5	924,000,762	1,256,248	0.0014	0.9986	98.62
7.5	889,604,917	638,683	0.0007	0.9993	98.48
8.5	846,721,479	1,006,620	0.0012	0.9988	98.41
9.5	802,900,573	740,331	0.0009	0.9991	98.29
10.5	763,342,012	1,272,010	0.0017	0.9983	98.20
11.5	705,658,320	2,017,480	0.0029	0.9971	98.04
12.5	652,397,985	2,618,090	0.0040	0.9960	97.76
13.5	597,165,209	3,234,784	0.0054	0.9946	97.37
14.5	567,800,521	2,932,297	0.0052	0.9948	96.84
15.5	502,401,315	2,767,557	0.0055	0.9945	96.34
16.5	480,594,285	1,697,962	0.0035	0.9965	95.81
17.5	387,330,770	861,640	0.0022	0.9978	95.47
18.5	375,761,365	1,040,226	0.0028	0.9972	95.26
19.5	350,503,510	1,134,787	0.0032	0.9968	94.99
20.5	271,092,506	642,004	0.0024	0.9976	94.69
21.5	248,589,208	905,761	0.0036	0.9964	94.46
22.5	232,441,393	3,827,583	0.0165	0.9835	94.12
23.5	208,535,962	5,497,976	0.0264	0.9736	92.57
24.5	183,069,672	4,250,235	0.0232	0.9768	90.13
25.5	152,904,989	3,624,204	0.0237	0.9763	88.03
26.5	125,868,699	2,472,164	0.0196	0.9804	85.95
27.5	86,825,569	1,971,267	0.0227	0.9773	84.26
28.5	59,310,257	1,342,478	0.0226	0.9774	82.35
29.5	31,807,901	1,342,321	0.0422	0.9578	80.48
30.5	16,024,711	1,510,587	0.0943	0.9057	77.09
31.5	6,919,095	361,399	0.0522	0.9478	69.82
32.5	5,879,564	199,221	0.0339	0.9661	66.17
33.5	4,857,502	109,182	0.0225	0.9775	63.93
34.5	4,093,322	64,388	0.0157	0.9843	62.49
35.5	3,566,069	25,818	0.0072	0.9928	61.51
36.5	3,059,123	51,403	0.0168	0.9832	61.07
37.5	2,532,498	10,486	0.0041	0.9959	60.04
38.5	2,251,217	9,257	0.0041	0.9959	59.79

DUKE ENERGY PROGRESS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,829,579	9,792	0.0054	0.9946	59.55
40.5	1,629,905	143	0.0001	0.9999	59.23
41.5	1,502,865	13,459	0.0090	0.9910	59.22
42.5	1,257,081		0.0000	1.0000	58.69
43.5	1,142,793	3	0.0000	1.0000	58.69
44.5	1,064,787	13,740	0.0129	0.9871	58.69
45.5	1,085,495	2,885	0.0027	0.9973	57.93
46.5	991,972	1,004	0.0010	0.9990	57.78
47.5	893,341	45,208	0.0506	0.9494	57.72
48.5	717,296	28,308	0.0395	0.9605	54.80
49.5	588,350	17,176	0.0292	0.9708	52.64
50.5	527,859	3,398	0.0064	0.9936	51.10
51.5	506,349	6,038	0.0119	0.9881	50.77
52.5	486,718	11,896	0.0244	0.9756	50.17
53.5	467,815	4,885	0.0104	0.9896	48.94
54.5	414,584	301	0.0007	0.9993	48.43
55.5	230,093	11	0.0000	1.0000	48.39
56.5	230,082	105	0.0005	0.9995	48.39
57.5	164,020	5	0.0000	1.0000	48.37
58.5	52,903	1	0.0000	1.0000	48.37
59.5	16	4	0.2408	0.7592	48.37
60.5	12	1	0.0694	0.9306	36.72
61.5	11	6	0.5643	0.4357	34.18
62.5	5	1	0.2933	0.7067	14.89
63.5	3		0.0000	1.0000	10.52
64.5	3		0.0000	1.0000	10.52
65.5	3	3	1.0000		10.52
66.5					

DUKE ENERGY PROGRESS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,154,293,167	1,385,253	0.0012	0.9988	100.00
0.5	1,131,315,559	5,338,008	0.0047	0.9953	99.88
1.5	1,100,707,293	2,439,296	0.0022	0.9978	99.41
2.5	1,046,148,161	1,830,647	0.0017	0.9983	99.19
3.5	1,030,420,991	1,774,174	0.0017	0.9983	99.01
4.5	987,708,945	1,141,330	0.0012	0.9988	98.84
5.5	961,192,746	1,228,559	0.0013	0.9987	98.73
6.5	917,749,962	1,227,185	0.0013	0.9987	98.60
7.5	884,788,528	632,747	0.0007	0.9993	98.47
8.5	842,957,437	1,004,577	0.0012	0.9988	98.40
9.5	799,963,226	733,818	0.0009	0.9991	98.28
10.5	760,920,324	1,261,989	0.0017	0.9983	98.19
11.5	703,616,575	2,001,138	0.0028	0.9972	98.03
12.5	650,613,874	2,613,831	0.0040	0.9960	97.75
13.5	595,579,203	3,228,788	0.0054	0.9946	97.36
14.5	566,410,775	2,928,165	0.0052	0.9948	96.83
15.5	501,208,487	2,759,829	0.0055	0.9945	96.33
16.5	479,548,467	1,696,147	0.0035	0.9965	95.80
17.5	386,503,282	860,170	0.0022	0.9978	95.46
18.5	375,009,736	1,039,481	0.0028	0.9972	95.25
19.5	349,900,594	1,131,579	0.0032	0.9968	94.99
20.5	270,595,130	637,301	0.0024	0.9976	94.68
21.5	248,271,139	902,872	0.0036	0.9964	94.46
22.5	232,232,244	3,826,469	0.0165	0.9835	94.11
23.5	208,422,755	5,496,505	0.0264	0.9736	92.56
24.5	182,967,560	4,246,652	0.0232	0.9768	90.12
25.5	152,836,793	3,623,496	0.0237	0.9763	88.03
26.5	125,813,199	2,471,073	0.0196	0.9804	85.94
27.5	86,778,351	1,969,827	0.0227	0.9773	84.25
28.5	59,264,479	1,342,139	0.0226	0.9774	82.34
29.5	31,762,354	1,341,557	0.0422	0.9578	80.48
30.5	15,980,019	1,509,887	0.0945	0.9055	77.08
31.5	6,875,103	361,160	0.0525	0.9475	69.79
32.5	5,835,838	199,221	0.0341	0.9659	66.13
33.5	4,815,505	109,182	0.0227	0.9773	63.87
34.5	4,051,332	64,126	0.0158	0.9842	62.42
35.5	3,524,341	25,818	0.0073	0.9927	61.43
36.5	3,017,395	51,403	0.0170	0.9830	60.98
37.5	2,490,770	10,486	0.0042	0.9958	59.95
38.5	2,214,072	9,257	0.0042	0.9958	59.69

DUKE ENERGY PROGRESS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

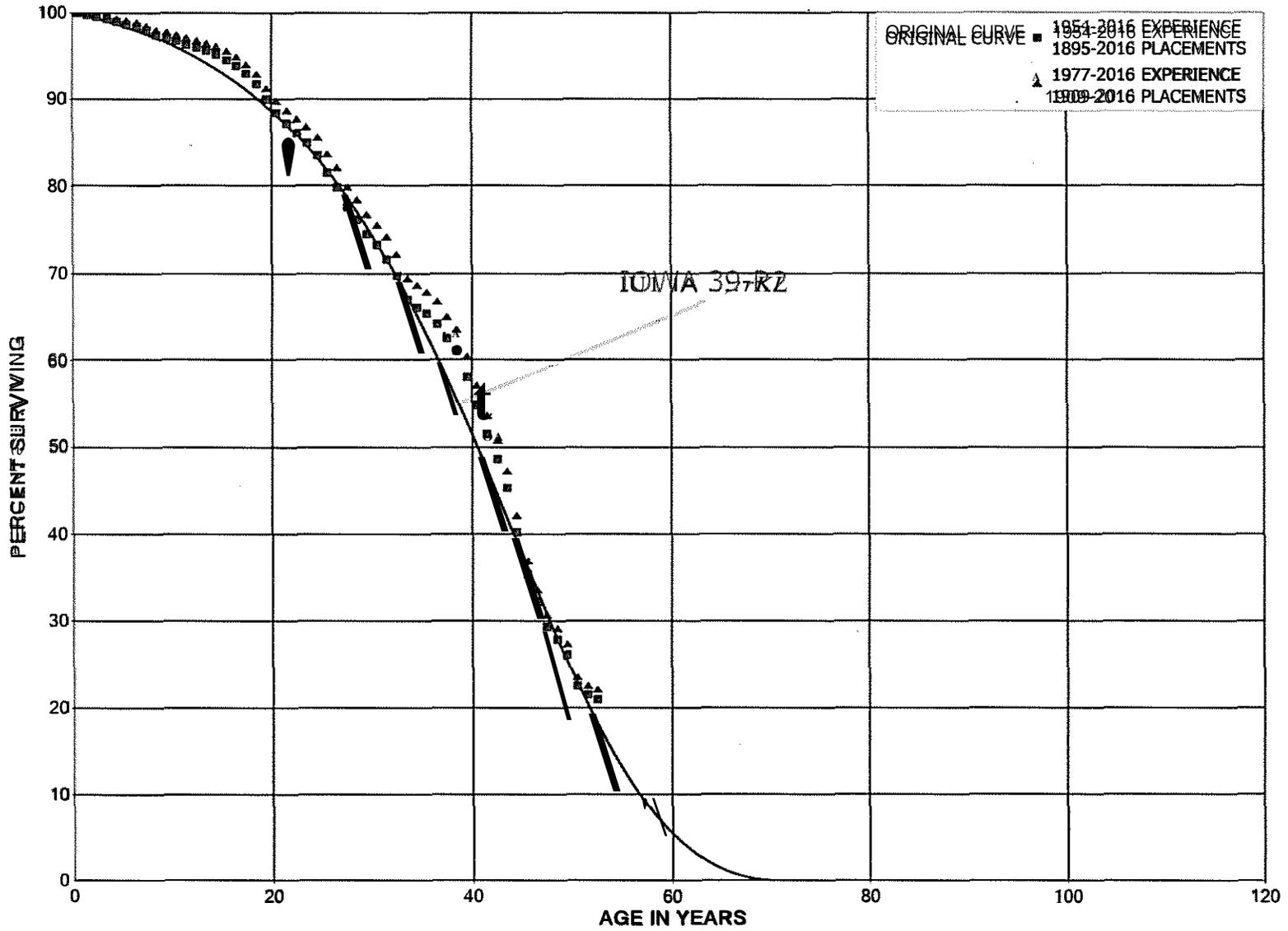
PLACEMENT BAND 1924-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,803,128	9,614	0.0053	0.9947	59.44
40.5	1,605,330	143	0.0001	0.9999	59.13
41.5	1,478,290	13,459	0.0091	0.9909	59.12
42.5	1,232,506		0.0000	1.0000	58.58
43.5	1,118,218	3	0.0000	1.0000	58.58
44.5	1,040,212	13,264	0.0128	0.9872	58.58
45.5	1,062,821	2,885	0.0027	0.9973	57.84
46.5	974,926	712	0.0007	0.9993	57.68
47.5	882,323	45,208	0.0512	0.9488	57.64
48.5	716,045	28,308	0.0395	0.9605	54.68
49.5	588,145	17,176	0.0292	0.9708	52.52
50.5	527,751	3,398	0.0064	0.9936	50.99
51.5	506,242	6,038	0.0119	0.9881	50.66
52.5	486,718	11,896	0.0244	0.9756	50.06
53.5	467,815	4,885	0.0104	0.9896	48.83
54.5	414,584	301	0.0007	0.9993	48.32
55.5	230,093	11	0.0000	1.0000	48.29
56.5	230,082	105	0.0005	0.9995	48.28
57.5	164,020	5	0.0000	1.0000	48.26
58.5	52,903	1	0.0000	1.0000	48.26
59.5	16	4	0.2408	0.7592	48.26
60.5	12	1	0.0694	0.9306	36.64
61.5	11	6	0.5643	0.4357	34.10
62.5	5	1	0.2933	0.7067	14.86
63.5	3		0.0000	1.0000	10.50
64.5	3		0.0000	1.0000	10.50
65.5	3	3	1.0000		10.50
66.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 271 of 317

DUKE ENERGY PROGRESS
ACCOUNT 368 LINE TRANSFORMERS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VIL-209

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1895-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,162,692,340	276,477	0.0002	0.9998	100.00
0.5	1,090,396,690	2,231,789	0.0020	0.9980	99.98
1.5	909,202,397	2,418,610	0.0027	0.9973	99.77
2.5	889,840,069	2,180,905	0.0025	0.9975	99.51
3.5	874,945,266	2,656,998	0.0030	0.9970	99.26
4.5	861,978,668	2,650,852	0.0031	0.9969	98.96
5.5	844,899,260	2,700,719	0.0032	0.9968	98.66
6.5	815,681,489	3,578,044	0.0044	0.9956	98.34
7.5	776,816,505	3,648,847	0.0047	0.9953	97.91
8.5	720,221,756	2,588,389	0.0036	0.9964	97.45
9.5	714,062,886	2,831,246	0.0040	0.9960	97.10
10.5	686,052,371	2,880,457	0.0042	0.9958	96.71
11.5	636,109,703	2,203,719	0.0035	0.9965	96.31
12.5	615,810,603	2,550,701	0.0041	0.9959	95.97
13.5	612,517,194	2,855,999	0.0047	0.9953	95.58
14.5	574,421,938	3,728,814	0.0065	0.9935	95.13
15.5	542,217,051	3,878,128	0.0072	0.9928	94.51
16.5	533,476,666	5,313,903	0.0100	0.9900	93.84
17.5	514,116,086	6,555,620	0.0128	0.9872	92.90
18.5	486,783,484	9,299,550	0.0191	0.9809	91.72
19.5	457,689,149	8,130,030	0.0178	0.9822	89.97
20.5	414,063,524	5,346,435	0.0129	0.9871	88.37
21.5	407,965,423	5,413,679	0.0133	0.9867	87.23
22.5	386,852,902	5,063,021	0.0131	0.9869	86.07
23.5	351,787,676	6,064,426	0.0172	0.9828	84.94
24.5	333,032,118	8,063,691	0.0242	0.9758	83.48
25.5	312,591,678	6,324,324	0.0202	0.9798	81.46
26.5	284,125,789	7,861,511	0.0277	0.9723	79.81
27.5	250,302,646	4,754,923	0.0190	0.9810	77.60
28.5	210,520,152	4,591,536	0.0218	0.9782	76.13
29.5	177,255,969	2,917,138	0.0165	0.9835	74.47
30.5	150,531,837	3,277,586	0.0218	0.9782	73.24
31.5	129,015,006	3,395,967	0.0263	0.9737	71.65
32.5	112,250,852	4,485,922	0.0400	0.9600	69.76
33.5	98,946,857	1,268,900	0.0128	0.9872	66.97
34.5	88,930,432	1,001,909	0.0113	0.9887	66.11
35.5	83,969,363	1,529,387	0.0182	0.9818	65.37
36.5	77,625,731	2,082,389	0.0268	0.9732	64.18
37.5	69,638,821	1,557,355	0.0224	0.9776	62.46
38.5	62,734,113	3,079,305	0.0491	0.9509	61.06

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 273 of 317

DUKE ENERGY PROGRESS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1895-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	55,620,516	3,073,762	0.0553	0.9447	58.06
40.5	51,852,904	3,206,689	0.0618	0.9382	54.85
41.5	48,398,402	2,669,424	0.0552	0.9448	51.46
42.5	41,565,509	2,892,515	0.0696	0.9304	48.62
43.5	33,816,596	3,745,684	0.1108	0.8892	45.24
44.5	26,940,124	3,292,760	0.1222	0.8778	40.23
45.5	21,486,369	1,941,165	0.0903	0.9097	35.31
46.5	15,521,579	1,358,416	0.0875	0.9125	32.12
47.5	11,084,630	545,599	0.0492	0.9508	29.31
48.5	9,101,146	577,231	0.0634	0.9366	27.87
49.5	7,371,289	1,010,699	0.1371	0.8629	26.10
50.5	5,446,604	247,438	0.0454	0.9546	22.52
51.5	4,412,002	101,100	0.0229	0.9771	21.50
52.5	3,557,141	70,153	0.0197	0.9803	21.01
53.5	2,977,455	68,514	0.0230	0.9770	20.59
54.5	2,590,291	61,221	0.0236	0.9764	20.12
55.5	2,203,699	68,417	0.0310	0.9690	19.64
56.5	1,930,830	98,927	0.0512	0.9488	19.03
57.5	1,580,980	44,619	0.0282	0.9718	18.06
58.5	1,401,395	12,937	0.0092	0.9908	17.55
59.5	1,139,845	39,026	0.0342	0.9658	17.39
60.5	927,410	36,966	0.0399	0.9601	16.79
61.5	661,337	10,353	0.0157	0.9843	16.12
62.5	475,092	9,050	0.0190	0.9810	15.87
63.5	286,773	16,877	0.0589	0.9411	15.57
64.5	228,452	7,150	0.0313	0.9687	14.65
65.5	178,601	7,863	0.0440	0.9560	14.19
66.5	131,491	7,678	0.0584	0.9416	13.57
67.5	117,737	25,186	0.2139	0.7861	12.77
68.5	83,790	10,234	0.1221	0.8779	10.04
69.5	73,556	9,544	0.1297	0.8703	8.82
70.5	64,013	9,518	0.1487	0.8513	7.67
71.5	54,495		0.0000	1.0000	6.53
72.5	54,495		0.0000	1.0000	6.53
73.5	54,495		0.0000	1.0000	6.53
74.5	54,495	9,706	0.1781	0.8219	6.53
75.5	44,789	19,648	0.4387	0.5613	5.37
76.5	25,141		0.0000	1.0000	3.01
77.5	25,141	1,144	0.0455	0.9545	3.01
78.5	23,997		0.0000	1.0000	2.88

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 274 of 317

DUKE ENERGY PROGRESS
ACCOUNT 368 LINE TRANSFORMERS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1895-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	23,997		0.0000	1.0000	2.88
80.5	23,997		0.0000	1.0000	2.88
81.5	23,997	1,026	0.0428	0.9572	2.88
82.5	22,971		0.0000	1.0000	2.75
83.5	22,971	1,092	0.0475	0.9525	2.75
84.5	21,879		0.0000	1.0000	2.62
85.5	21,879		0.0000	1.0000	2.62
86.5	21,879	21,879	1.0000	0.0000	2.62
87.5	0		0.0000	1.0000	0.00
88.5	0		0.0000	1.0000	0.00
89.5	0		0.0000	1.0000	0.00
90.5	0		0.0000	1.0000	0.00
91.5	0		0.0000	1.0000	0.00
92.5	0		0.0000	1.0000	0.00
93.5	0		0.0000	1.0000	0.00
94.5	0		0.0000	1.0000	0.00
95.5	0		0.0000	1.0000	0.00
96.5	0	0	1.0000		0.00
97.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 275 of 317

DUKE ENERGY PROGRESS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1909-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,047,224,648	121,142	0.0001	0.9999	100.00
0.5	980,929,891	1,567,947	0.0016	0.9984	99.99
1.5	802,234,841	1,583,110	0.0020	0.9980	99.83
2.5	789,104,315	1,407,428	0.0018	0.9982	99.63
3.5	781,747,194	1,886,395	0.0024	0.9976	99.45
4.5	776,079,426	1,929,013	0.0025	0.9975	99.21
5.5	763,718,653	2,080,259	0.0027	0.9973	98.97
6.5	743,022,540	2,984,181	0.0040	0.9960	98.70
7.5	712,088,021	3,024,422	0.0042	0.9958	98.30
8.5	661,656,347	2,006,493	0.0030	0.9970	97.88
9.5	662,099,052	2,260,227	0.0034	0.9966	97.59
10.5	639,131,641	2,276,922	0.0036	0.9964	97.25
11.5	593,608,554	1,619,015	0.0027	0.9973	96.91
12.5	576,742,013	1,992,168	0.0035	0.9965	96.64
13.5	576,391,529	2,220,754	0.0039	0.9961	96.31
14.5	541,038,174	3,093,156	0.0057	0.9943	95.94
15.5	511,592,950	3,333,528	0.0065	0.9935	95.39
16.5	505,074,145	4,709,843	0.0093	0.9907	94.77
17.5	492,020,597	5,847,048	0.0119	0.9881	93.88
18.5	466,252,283	8,521,900	0.0183	0.9817	92.77
19.5	439,504,577	7,280,858	0.0166	0.9834	91.07
20.5	398,090,889	4,468,977	0.0112	0.9888	89.56
21.5	394,420,382	4,492,171	0.0114	0.9886	88.56
22.5	375,520,727	4,155,725	0.0111	0.9889	87.55
23.5	342,669,311	4,854,415	0.0142	0.9858	86.58
24.5	325,662,525	6,938,161	0.0213	0.9787	85.35
25.5	307,605,817	6,008,667	0.0195	0.9805	83.54
26.5	280,251,013	7,527,162	0.0269	0.9731	81.90
27.5	246,897,101	4,395,287	0.0178	0.9822	79.70
28.5	208,229,325	4,352,997	0.0209	0.9791	78.29
29.5	175,175,691	2,747,237	0.0157	0.9843	76.65
30.5	148,550,328	2,808,652	0.0189	0.9811	75.45
31.5	127,456,948	3,294,613	0.0258	0.9742	74.02
32.5	110,771,287	4,326,820	0.0391	0.9609	72.11
33.5	97,567,432	1,124,832	0.0115	0.9885	69.29
34.5	87,649,778	918,476	0.0105	0.9895	68.49
35.5	82,765,645	1,476,438	0.0178	0.9822	67.77
36.5	76,437,804	2,022,673	0.0265	0.9735	66.57
37.5	68,484,248	1,476,553	0.0216	0.9784	64.80
38.5	61,649,207	3,021,507	0.0490	0.9510	63.41

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 276 of 317

DUKE ENERGY PROGRESS
ACCOUNT 368 LINE TRANSFORMERS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1909-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	54,658,652	2,986,152	0.0546	0.9454	60.30
40.5	51,042,567	3,134,004	0.0614	0.9386	57.00
41.5	47,705,696	2,597,699	0.0545	0.9455	53.50
42.5	40,950,505	2,821,290	0.0689	0.9311	50.59
43.5	33,273,284	3,681,846	0.1107	0.8893	47.11
44.5	26,464,729	3,243,533	0.1226	0.8774	41.89
45.5	21,070,281	1,915,914	0.0909	0.9091	36.76
46.5	15,146,370	1,333,463	0.0880	0.9120	33.42
47.5	10,801,781	519,418	0.0481	0.9519	30.47
48.5	8,860,948	559,610	0.0632	0.9368	29.01
49.5	7,171,322	985,633	0.1374	0.8626	27.18
50.5	5,285,026	226,471	0.0429	0.9571	23.44
51.5	4,286,183	88,041	0.0205	0.9795	22.44
52.5	3,451,670	63,423	0.0184	0.9816	21.98
53.5	2,917,532	66,920	0.0229	0.9771	21.57
54.5	2,532,317	60,328	0.0238	0.9762	21.08
55.5	2,155,052	67,103	0.0311	0.9689	20.58
56.5	1,884,806	98,668	0.0523	0.9477	19.93
57.5	1,537,326	44,533	0.0290	0.9710	18.89
58.5	1,357,882	12,726	0.0094	0.9906	18.34
59.5	1,102,529	38,764	0.0352	0.9648	18.17
60.5	919,481	36,966	0.0402	0.9598	17.53
61.5	655,537	10,353	0.0158	0.9842	16.83
62.5	474,764	9,050	0.0191	0.9809	16.56
63.5	286,446	16,877	0.0589	0.9411	16.25
64.5	228,124	6,823	0.0299	0.9701	15.29
65.5	178,601	7,863	0.0440	0.9560	14.83
66.5	131,491	7,678	0.0584	0.9416	14.18
67.5	117,737	25,186	0.2139	0.7861	13.35
68.5	83,790	10,234	0.1221	0.8779	10.50
69.5	73,556	9,544	0.1297	0.8703	9.21
70.5	64,013	9,518	0.1487	0.8513	8.02
71.5	54,495		0.0000	1.0000	6.83
72.5	54,495		0.0000	1.0000	6.83
73.5	54,495		0.0000	1.0000	6.83
74.5	54,495	9,706	0.1781	0.8219	6.83
75.5	44,789	19,648	0.4387	0.5613	5.61
76.5	25,141		0.0000	1.0000	3.15
77.5	25,141	1,144	0.0455	0.9545	3.15
78.5	23,997		0.0000	1.0000	3.01

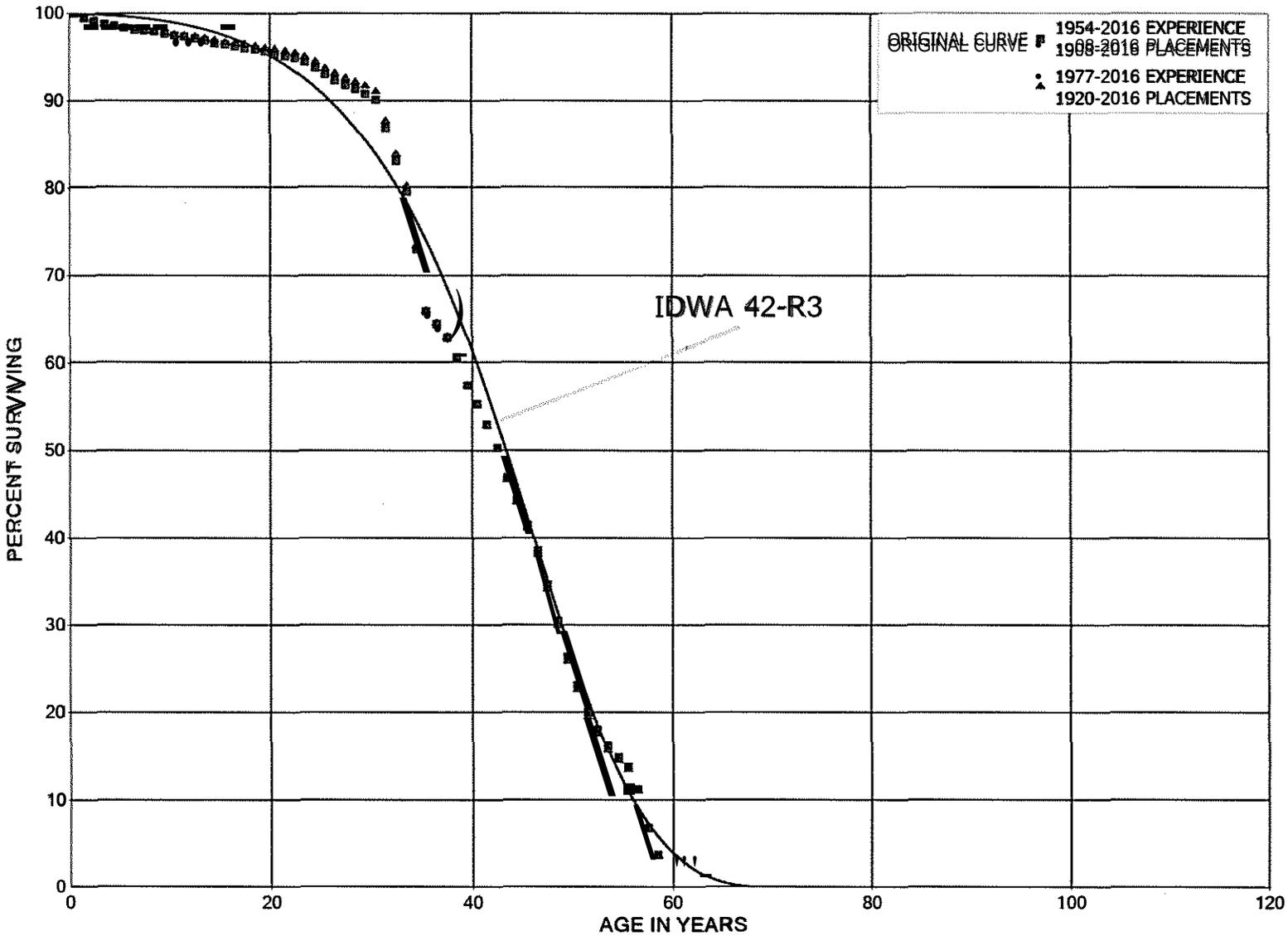
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 277 of 317

DUKE ENERGY PROGRESS
ACCOUNT 368 LINE TRANSFORMERS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1909-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	23,997		0.0000	1.0000	3.01
80.5	23,997		0.0000	1.0000	3.01
81.5	23,997	1,026	0.0428	0.9572	3.01
82.5	22,971		0.0000	1.0000	2.88
83.5	22,971	1,092	0.0475	0.9525	2.88
84.5	21,879		0.0000	1.0000	2.74
85.5	21,879		0.0000	1.0000	2.74
86.5	21,879	21,879	1.0000	0.0000	2.74
87.5	0		0.0000	1.0000	0.00
88.5	0		0.0000	1.0000	0.00
89.5	0		0.0000	1.0000	0.00
90.5	0		0.0000	1.0000	0.00
91.5	0		0.0000	1.0000	0.00
92.5	0		0.0000	1.0000	0.00
93.5	0		0.0000	1.0000	0.00
94.5	0		0.0000	1.0000	0.00
95.5	0		0.0000	1.0000	0.00
96.5	0	0	1.0000		0.00
97.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 278 of 317

DUKE ENERGY PROGRESS
ACCOUNT 369 SERVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

W1216

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 369 SERVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	680,359,136	745,349	0.0011	0.9989	100.00
0.5	639,708,190	3,315,738	0.0052	0.9948	99.89
1.5	610,847,824	1,962,838	0.0032	0.9968	99.37
2.5	577,191,469	1,920,356	0.0033	0.9967	99.05
3.5	574,832,179	1,520,463	0.0026	0.9974	98.72
4.5	564,084,402	1,084,752	0.0019	0.9981	98.46
5.5	550,960,958	890,147	0.0016	0.9984	98.27
6.5	537,788,380	881,459	0.0016	0.9984	98.11
7.5	531,204,053	867,129	0.0016	0.9984	97.95
8.5	512,258,106	867,203	0.0017	0.9983	97.79
9.5	488,300,122	1,013,078	0.0021	0.9979	97.63
10.5	467,861,007	861,629	0.0018	0.9982	97.43
11.5	444,056,932	859,058	0.0019	0.9981	97.25
12.5	418,723,104	924,531	0.0022	0.9978	97.06
13.5	392,089,133	1,240,009	0.0032	0.9968	96.84
14.5	382,416,315	761,772	0.0020	0.9980	96.54
15.5	344,883,365	653,432	0.0019	0.9981	96.35
16.5	338,402,852	542,078	0.0016	0.9984	96.16
17.5	289,586,936	628,772	0.0022	0.9978	96.01
18.5	286,817,706	693,523	0.0024	0.9976	95.80
19.5	272,608,633	682,492	0.0025	0.9975	95.57
20.5	221,440,536	529,187	0.0024	0.9976	95.33
21.5	202,403,650	586,461	0.0029	0.9971	95.10
22.5	184,232,719	834,406	0.0045	0.9955	94.83
23.5	167,983,983	1,197,796	0.0071	0.9929	94.40
24.5	151,970,166	1,305,410	0.0086	0.9914	93.72
25.5	137,168,224	894,081	0.0065	0.9935	92.92
26.5	121,356,309	776,091	0.0064	0.9936	92.31
27.5	104,989,499	495,374	0.0047	0.9953	91.72
28.5	89,862,053	541,169	0.0060	0.9940	91.29
29.5	77,555,989	588,889	0.0076	0.9924	90.74
30.5	68,086,788	2,429,224	0.0357	0.9643	90.05
31.5	59,123,251	2,555,301	0.0432	0.9568	86.84
32.5	50,332,427	2,155,105	0.0428	0.9572	83.08
33.5	43,131,486	3,570,167	0.0828	0.9172	79.53
34.5	38,083,544	3,734,080	0.0980	0.9020	72.94
35.5	32,983,443	699,419	0.0212	0.9788	65.79
36.5	31,756,441	767,284	0.0242	0.9758	64.40
37.5	30,143,655	1,092,890	0.0363	0.9637	62.84
38.5	28,171,249	1,466,072	0.0520	0.9480	60.56

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 280 of 317

DUKE ENERGY PROGRESS
ACCOUNT 369 SERVICES
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	21,848,952	808,096	0.0370	0.9630	57.41
40.5	20,529,457	881,377	0.0429	0.9571	55.29
41.5	19,182,566	960,491	0.0501	0.9499	52.91
42.5	17,258,804	1,192,966	0.0691	0.9309	50.26
43.5	14,966,078	815,799	0.0545	0.9455	46.79
44.5	13,292,565	841,309	0.0633	0.9367	44.24
45.5	11,717,125	838,408	0.0716	0.9284	41.44
46.5	10,562,103	1,073,855	0.1017	0.8983	38.47
47.5	8,839,296	1,074,629	0.1216	0.8784	34.56
48.5	7,376,326	985,889	0.1337	0.8663	30.36
49.5	6,004,364	740,391	0.1233	0.8767	26.30
50.5	4,927,041	654,326	0.1328	0.8672	23.06
51.5	4,091,480	413,581	0.1011	0.8989	20.00
52.5	3,489,484	348,518	0.0999	0.9001	17.98
53.5	2,991,089	249,302	0.0833	0.9167	16.18
54.5	2,647,633	204,885	0.0774	0.9226	14.83
55.5	2,347,104	420,986	0.1794	0.8206	13.68
56.5	1,918,305	768,968	0.4009	0.5991	11.23
57.5	1,103,589	517,384	0.4688	0.5312	6.73
58.5	560,871	255,945	0.4563	0.5437	3.57
59.5	248,314	144,381	0.5814	0.4186	1.94
60.5	91,157	2,778	0.0305	0.9695	0.81
61.5	85,776	2,330	0.0272	0.9728	0.79
62.5	83,446	18,382	0.2203	0.7797	0.77
63.5	65,063	10,301	0.1583	0.8417	0.60
64.5	54,763	19,804	0.3616	0.6384	0.50
65.5	34,959	11,654	0.3334	0.6666	0.32
66.5	23,305	15,841	0.6798	0.3202	0.21
67.5	7,463	5,230	0.7008	0.2992	0.07
68.5	2,233	1,730	0.7746	0.2254	0.02
69.5	503		0.0000	1.0000	0.00
70.5	503	447	0.8878	0.1122	0.00
71.5	56		0.0000	1.0000	0.00
72.5	56		0.0000	1.0000	0.00
73.5	56		0.0000	1.0000	0.00
74.5	56		0.0000	1.0000	0.00
75.5	56		0.0000	1.0000	0.00
76.5	56		0.0000	1.0000	0.00
77.5	56	56	1.0000		0.00
78.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 281 of 317

DUKE ENERGY PROGRESS

ACCOUNT 369 SERVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1920-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	644,423,083	720,711	0.0011	0.9989	100.00
0.5	606,136,738	3,234,904	0.0053	0.9947	99.89
1.5	579,017,785	1,883,634	0.0033	0.9967	99.36
2.5	548,203,819	1,835,506	0.0033	0.9967	99.03
3.5	548,603,582	1,420,772	0.0026	0.9974	98.70
4.5	540,951,784	965,459	0.0018	0.9982	98.44
5.5	530,432,623	757,169	0.0014	0.9986	98.27
6.5	519,179,832	747,794	0.0014	0.9986	98.13
7.5	514,835,995	719,593	0.0014	0.9986	97.99
8.5	497,541,767	709,023	0.0014	0.9986	97.85
9.5	475,152,709	856,706	0.0018	0.9982	97.71
10.5	456,142,632	678,441	0.0015	0.9985	97.53
11.5	433,315,522	698,442	0.0016	0.9984	97.39
12.5	408,929,165	758,817	0.0019	0.9981	97.23
13.5	383,072,318	1,066,396	0.0028	0.9972	97.05
14.5	374,038,995	590,957	0.0016	0.9984	96.78
15.5	337,193,739	494,837	0.0015	0.9985	96.63
16.5	331,037,707	414,654	0.0013	0.9987	96.49
17.5	282,954,125	488,662	0.0017	0.9983	96.37
18.5	280,518,877	559,046	0.0020	0.9980	96.20
19.5	266,830,214	557,598	0.0021	0.9979	96.01
20.5	216,201,054	413,743	0.0019	0.9981	95.81
21.5	197,719,835	491,574	0.0025	0.9975	95.62
22.5	180,029,147	734,803	0.0041	0.9959	95.39
23.5	164,332,705	1,072,265	0.0065	0.9935	95.00
24.5	148,741,115	1,195,826	0.0080	0.9920	94.38
25.5	134,456,569	825,390	0.0061	0.9939	93.62
26.5	119,554,541	700,357	0.0059	0.9941	93.04
27.5	103,264,324	456,931	0.0044	0.9956	92.50
28.5	88,205,958	505,886	0.0057	0.9943	92.09
29.5	75,957,777	554,703	0.0073	0.9927	91.56
30.5	66,512,576	2,374,801	0.0357	0.9643	90.89
31.5	57,599,346	2,522,090	0.0438	0.9562	87.65
32.5	48,909,056	2,135,211	0.0437	0.9563	83.81
33.5	41,837,260	3,548,171	0.0848	0.9152	80.15
34.5	36,921,743	3,718,853	0.1007	0.8993	73.35
35.5	31,937,362	684,618	0.0214	0.9786	65.97
36.5	30,820,870	753,876	0.0245	0.9755	64.55
37.5	29,309,130	1,082,815	0.0369	0.9631	62.97
38.5	27,428,534	1,457,632	0.0531	0.9469	60.65

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 282 of 317

DUKE ENERGY PROGRESS

ACCOUNT 369 SERVICES

ORIGINAL LIFE TABLE, CONT.

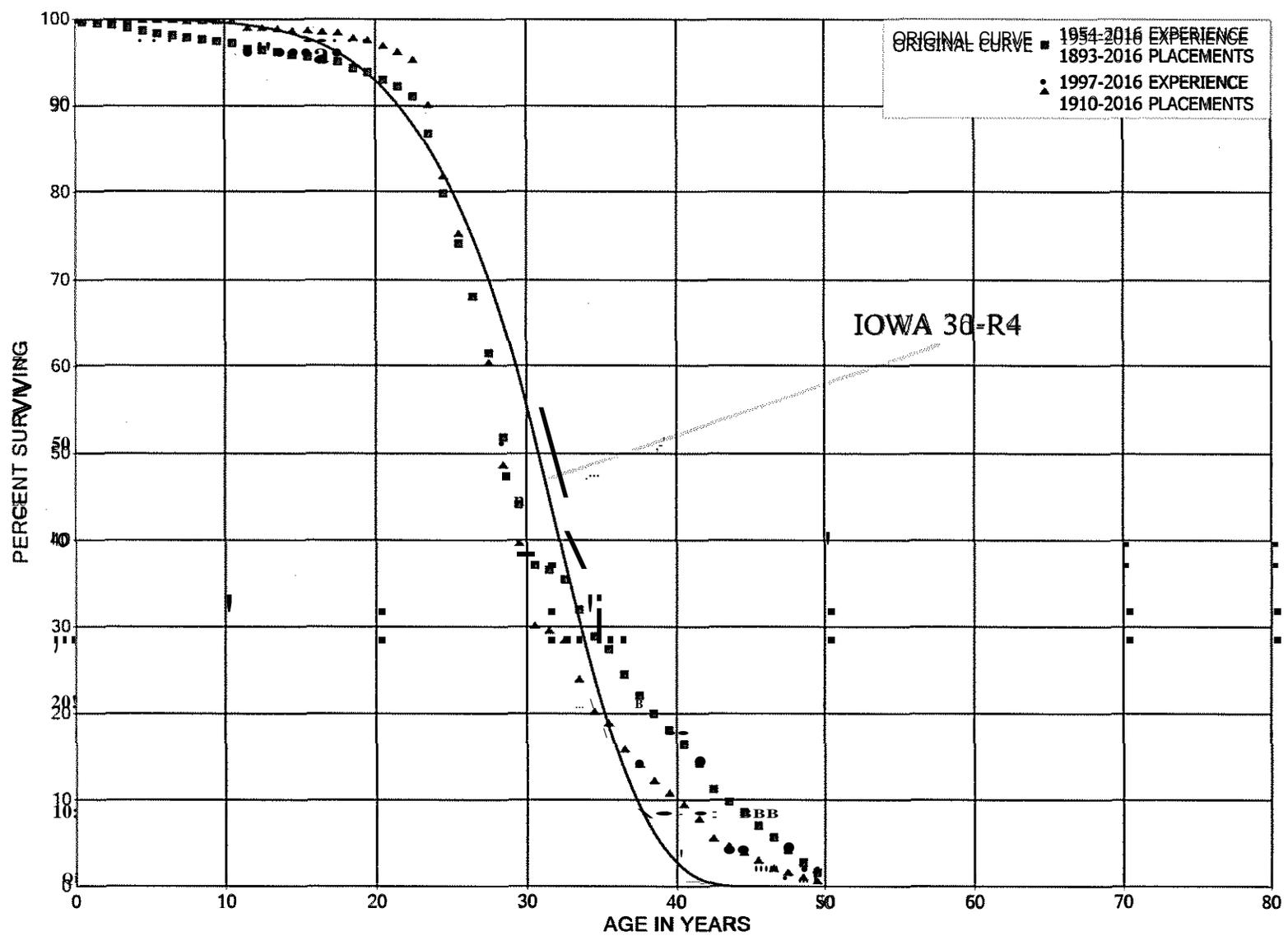
PLACEMENT BAND 1920-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	21,187,808	803,400	0.0379	0.9621	57.42
40.5	19,934,656	878,623	0.0441	0.9559	55.25
41.5	18,642,863	959,039	0.0514	0.9486	52.81
42.5	16,769,307	1,190,692	0.0710	0.9290	50.09
43.5	14,521,320	814,753	0.0561	0.9439	46.54
44.5	12,890,594	840,380	0.0652	0.9348	43.93
45.5	11,355,644	837,022	0.0737	0.9263	41.06
46.5	10,244,083	1,067,335	0.1042	0.8958	38.04
47.5	8,567,896	1,069,893	0.1249	0.8751	34.07
48.5	7,148,283	977,413	0.1367	0.8633	29.82
49.5	5,823,740	740,230	0.1271	0.8729	25.74
50.5	4,798,519	651,928	0.1359	0.8641	22.47
51.5	3,993,698	413,525	0.1035	0.8965	19.42
52.5	3,417,477	346,093	0.1013	0.8987	17.41
53.5	2,939,837	234,379	0.0797	0.9203	15.64
54.5	2,622,263	189,174	0.0721	0.9279	14.40
55.5	2,342,031	418,440	0.1787	0.8213	13.36
56.5	1,918,305	768,968	0.4009	0.5991	10.97
57.5	1,103,589	517,384	0.4688	0.5312	6.57
58.5	560,871	255,945	0.4563	0.5437	3.49
59.5	248,314	144,381	0.5814	0.4186	1.90
60.5	91,157	2,778	0.0305	0.9695	0.79
61.5	85,776	2,330	0.0272	0.9728	0.77
62.5	83,446	18,382	0.2203	0.7797	0.75
63.5	65,063	10,301	0.1583	0.8417	0.58
64.5	54,763	19,804	0.3616	0.6384	0.49
65.5	34,959	11,654	0.3334	0.6666	0.31
66.5	23,305	15,841	0.6798	0.3202	0.21
67.5	7,463	5,230	0.7008	0.2992	0.07
68.5	2,233	1,730	0.7746	0.2254	0.02
69.5	503		0.0000	1.0000	0.00
70.5	503	447	0.8878	0.1122	0.00
71.5	56		0.0000	1.0000	0.00
72.5	56		0.0000	1.0000	0.00
73.5	56		0.0000	1.0000	0.00
74.5	56		0.0000	1.0000	0.00
75.5	56		0.0000	1.0000	0.00
76.5	56		0.0000	1.0000	0.00
77.5	56	56	1.0000		0.00
78.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 283 of 317

DUKE ENERGY PROGRESS
ACCOUNT 370 METERS AND METERING EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 370 METERS AND METERING EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1893-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	284,586,262	1,099,631	0.0039	0.9961	100.00
0.5	283,616,227	202,024	0.0007	0.9993	99.61
1.5	283,925,924	579,326	0.0020	0.9980	99.54
2.5	281,466,531	1,032,981	0.0037	0.9963	99.34
3.5	281,173,518	932,893	0.0033	0.9967	98.97
4.5	275,361,805	1,041,857	0.0038	0.9962	98.65
5.5	269,411,707	631,044	0.0023	0.9977	98.27
6.5	264,572,017	571,843	0.0022	0.9978	98.04
7.5	261,042,988	590,204	0.0023	0.9977	97.83
8.5	252,502,854	579,144	0.0023	0.9977	97.61
9.5	247,482,980	476,293	0.0019	0.9981	97.39
10.5	245,767,325	1,615,757	0.0066	0.9934	97.20
11.5	178,301,043	405,490	0.0023	0.9977	96.56
12.5	174,235,652	358,922	0.0021	0.9979	96.34
13.5	170,933,888	519,901	0.0030	0.9970	96.14
14.5	165,125,751	370,591	0.0022	0.9978	95.85
15.5	164,554,678	508,073	0.0031	0.9969	95.63
16.5	160,992,190	501,111	0.0031	0.9969	95.34
17.5	156,725,824	1,295,617	0.0083	0.9917	95.04
18.5	141,422,634	683,523	0.0048	0.9952	94.26
19.5	136,741,713	1,209,180	0.0088	0.9912	93.80
20.5	129,214,461	1,144,043	0.0089	0.9911	92.97
21.5	126,694,476	1,424,779	0.0112	0.9888	92.15
22.5	120,103,540	5,734,674	0.0477	0.9523	91.11
23.5	111,071,414	8,883,748	0.0800	0.9200	86.76
24.5	98,387,583	6,900,129	0.0701	0.9299	79.82
25.5	88,466,354	7,303,907	0.0826	0.9174	74.22
26.5	76,311,864	7,354,698	0.0964	0.9036	68.10
27.5	63,993,859	10,115,426	0.1581	0.8419	61.53
28.5	45,380,770	6,759,876	0.1490	0.8510	51.81
29.5	31,616,630	5,001,880	0.1582	0.8418	44.09
30.5	20,360,703	331,716	0.0163	0.9837	37.11
31.5	19,958,963	609,782	0.0306	0.9694	36.51
32.5	19,176,319	1,838,944	0.0959	0.9041	35.39
33.5	17,270,844	1,708,754	0.0989	0.9011	32.00
34.5	15,574,121	777,343	0.0499	0.9501	28.83
35.5	14,735,044	1,579,452	0.1072	0.8928	27.39
36.5	13,148,670	1,265,311	0.0962	0.9038	24.46
37.5	11,842,298	1,174,632	0.0992	0.9008	22.10
38.5	10,574,170	954,570	0.0903	0.9097	19.91

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 285 of 317

DUKE ENERGY PROGRESS

ACCOUNT 370 METERS AND METERING EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1893-2016			EXPERIENCE BAND 1954-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	9,572,366	920,804	0.0962	0.9038	18.11	
40.5	8,633,195	1,178,079	0.1365	0.8635	16.37	
41.5	7,450,044	1,574,220	0.2113	0.7887	14.14	
42.5	5,876,063	767,031	0.1305	0.8695	11.15	
43.5	5,090,818	621,700	0.1221	0.8779	9.70	
44.5	4,469,339	797,381	0.1784	0.8216	8.51	
45.5	3,672,192	741,552	0.2019	0.7981	6.99	
46.5	2,930,809	732,857	0.2501	0.7499	5.58	
47.5	2,196,342	769,671	0.3504	0.6496	4.19	
48.5	1,426,742	606,091	0.4248	0.5752	2.72	
49.5	820,681	158,908	0.1936	0.8064	1.56	
50.5	661,780	196,235	0.2965	0.7035	1.26	
51.5	465,569	131,477	0.2824	0.7176	0.89	
52.5	334,109	241,183	0.7219	0.2781	0.64	
53.5	92,926	65,205	0.7017	0.2983	0.18	
54.5	27,721	346	0.0125	0.9875	0.05	
55.5	27,375	1,313	0.0480	0.9520	0.05	
56.5	26,062	34	0.0013	0.9987	0.05	
57.5	26,028	165	0.0063	0.9937	0.05	
58.5	25,863		0.0000	1.0000	0.05	
59.5	25,863	872	0.0337	0.9663	0.05	
60.5	24,998	849	0.0339	0.9661	0.05	
61.5	24,149	14,283	0.5914	0.4086	0.05	
62.5	9,867	168	0.0170	0.9830	0.02	
63.5	9,699	7,531	0.7765	0.2235	0.02	
64.5	2,168		0.0000	1.0000	0.00	
65.5	2,168	199	0.0919	0.9081	0.00	
66.5	1,969		0.0000	1.0000	0.00	
67.5	1,969		0.0000	1.0000	0.00	
68.5	1,969	23	0.0114	0.9886	0.00	
69.5	1,946	935	0.4802	0.5198	0.00	
70.5	1,012		0.0000	1.0000	0.00	
71.5	1,012	935	0.9244	0.0756	0.00	
72.5	76		0.0000	1.0000	0.00	
73.5	76	14	0.1788	0.8212	0.00	
74.5	63	7	0.11069	0.8931	0.00	
75.5	56	13	0.2397	0.7603	0.00	
76.5	43	7	0.1574	0.8426	0.00	
77.5	36	13	0.3741	0.6259	0.00	
78.5	22		0.0000	1.0000	0.00	

DUKE ENERGY PROGRESS

ACCOUNT 370 METERS AND METERING EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1893-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	22		0.0000	1.0000	0.00
80.5	22	7	0.3290	0.6710	0.00
81.5	15		0.0000	1.0000	0.00
82.5	15		0.0000	1.0000	0.00
83.5	15		0.0000	1.0000	0.00
84.5	15		0.0000	1.0000	0.00
85.5	15		0.0000	1.0000	0.00
86.5	15	5	0.3313	0.6687	0.00
87.5	10	5	0.4955	0.5045	0.00
88.5	5		0.0000	1.0000	0.00
89.5	5		0.0000	1.0000	0.00
90.5	5		0.0000	1.0000	0.00
91.5	5		0.0000	1.0000	0.00
92.5	5	5	1.0000		0.00
93.5					

DUKE ENERGY PROGRESS

ACCOUNT 370 METERS AND METERING EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1910-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	144,224,569	378,348	0.0026	0.9974	100.00
0.5	149,864,559		0.0000	1.0000	99.74
1.5	151,199,050		0.0000	1.0000	99.74
2.5	154,294,928	10,962	0.0001	0.9999	99.74
3.5	157,450,546	57,690	0.0004	0.9996	99.73
4.5	156,579,121		0.0000	1.0000	99.69
5.5	154,747,977		0.0000	1.0000	99.69
6.5	155,961,220	55,511	0.0004	0.9996	99.69
7.5	157,161,186	83,993	0.0005	0.9995	99.66
8.5	159,971,456	2,411	0.0000	1.0000	99.61
9.5	165,053,834	82	0.0000	1.0000	99.60
10.5	173,501,225	1,251,638	0.0072	0.9928	99.60
11.5	113,957,033	116,199	0.0010	0.9990	98.89
12.5	118,583,232	84,189	0.0007	0.9993	98.78
13.5	119,849,731	192,521	0.0016	0.9984	98.71
14.5	117,869,446	13,889	0.0001	0.9999	98.56
15.5	121,389,238	165,846	0.0014	0.9986	98.54
16.5	121,481,517	182,326	0.0015	0.9985	98.41
17.5	120,581,316	757,469	0.0063	0.9937	98.26
18.5	108,413,757	229,804	0.0021	0.9979	97.64
19.5	108,648,631	844,481	0.0078	0.9922	97.44
20.5	104,690,851	683,367	0.0065	0.9935	96.68
21.5	102,752,872	980,759	0.0095	0.9905	96.05
22.5	96,961,964	5,256,032	0.0542	0.9458	95.13
23.5	90,082,945	8,218,035	0.0912	0.9088	89.98
24.5	79,523,418	6,433,717	0.0809	0.9191	81.77
25.5	70,618,300	6,784,699	0.0961	0.9039	75.15
26.5	60,206,998	6,780,569	0.1126	0.8874	67.93
27.5	49,328,739	9,662,606	0.1959	0.8041	60.28
28.5	32,070,113	5,921,611	0.1846	0.8154	48.47
29.5	19,860,855	4,822,857	0.2428	0.7572	39.52
30.5	9,476,574	162,197	0.0171	0.9829	29.93
31.5	9,831,041	372,134	0.0379	0.9621	29.41
32.5	10,221,221	1,610,070	0.1575	0.8425	28.30
33.5	9,275,685	1,479,328	0.1595	0.8405	23.84
34.5	8,407,815	557,904	0.0664	0.9336	20.04
35.5	8,332,452	1,322,101	0.1587	0.8413	18.71
36.5	7,446,976	858,009	0.1152	0.8848	15.74
37.5	6,957,760	950,618	0.1366	0.8634	13.93
38.5	6,298,717	746,289	0.1185	0.8815	12.02

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 288 of 317

DUKE ENERGY PROGRESS

ACCOUNT 370 METERS AND METERING EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1910-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	5,877,964	723,104	0.1230	0.8770	10.60
40.5	5,505,326	999,187	0.1815	0.8185	9.30
41.5	4,811,076	1,418,698	0.2949	0.7051	7.61
42.5	3,632,434	617,808	0.1701	0.8299	5.37
43.5	3,213,727	523,767	0.1630	0.8370	4.45
44.5	2,924,966	740,716	0.2532	0.7468	3.73
45.5	2,539,771	709,082	0.2792	0.7208	2.78
46.5	2,799,590	721,360	0.2577	0.7423	2.01
47.5	2,078,396	755,590	0.3635	0.6365	1.49
48.5	1,322,863	590,963	0.4467	0.5533	0.95
49.5	732,419	141,462	0.1931	0.8069	0.52
50.5	591,182	185,605	0.3140	0.6860	0.42
51.5	405,714	115,672	0.2851	0.7149	0.29
52.5	290,041	232,901	0.8030	0.1970	0.21
53.5	64,640	56,937	0.8808	0.1192	0.04
54.5	7,711	57	0.0075	0.9925	0.00
55.5	18,730	389	0.0208	0.9792	0.00
56.5	18,491	9	0.0005	0.9995	0.00
57.5	19,439	137	0.0070	0.9930	0.00
58.5	19,302		0.0000	1.0000	0.00
59.5	21,310	872	0.0409	0.9591	0.00
60.5	24,861	834	0.0336	0.9664	0.00
61.5	24,026	14,283	0.5945	0.4055	0.00
62.5	9,766	151	0.0154	0.9846	0.00
63.5	9,622	7,531	0.7826	0.2174	0.00
64.5	2,092		0.0000	1.0000	0.00
65.5	2,092	199	0.0952	0.9048	0.00
66.5	1,892		0.0000	1.0000	0.00
67.5	1,906		0.0000	1.0000	0.00
68.5	1,913	23	0.0118	0.9882	0.00
69.5	1,904	935	0.4909	0.5091	0.00
70.5	976		0.0000	1.0000	0.00
71.5	989	935	0.9454	0.0546	0.00
72.5	54		0.0000	1.0000	0.00
73.5	54	14	0.2533	0.7467	0.00
74.5	48	7	0.1407	0.8593	0.00
75.5	41	13	0.3279	0.6721	0.00
76.5	28	7	0.2436	0.7564	0.00
77.5	21	13	0.6449	0.3551	0.00
78.5	7		0.0000	1.0000	0.00

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 289 of 317

DUKE ENERGY PROGRESS

ACCOUNT 370 METERS AND METERING EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1910-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	7		0.0000	1.0000	0.00
80.5	12	7	0.5968	0.4032	0.00
81.5	10		0.0000	1.0000	0.00
82.5	10		0.0000	1.0000	0.00
83.5	10		0.0000	1.0000	0.00
84.5	10		0.0000	1.0000	0.00
85.5	10		0.0000	1.0000	0.00
86.5	15	5	0.3313	0.6687	0.00
87.5	10	5	0.4955	0.5045	0.00
88.5	5		0.0000	1.0000	0.00
89.5	5		0.0000	1.0000	0.00
90.5	5		0.0000	1.0000	0.00
91.5	5		0.0000	1.0000	0.00
92.5	5	5	1.0000		0.00
93.5					

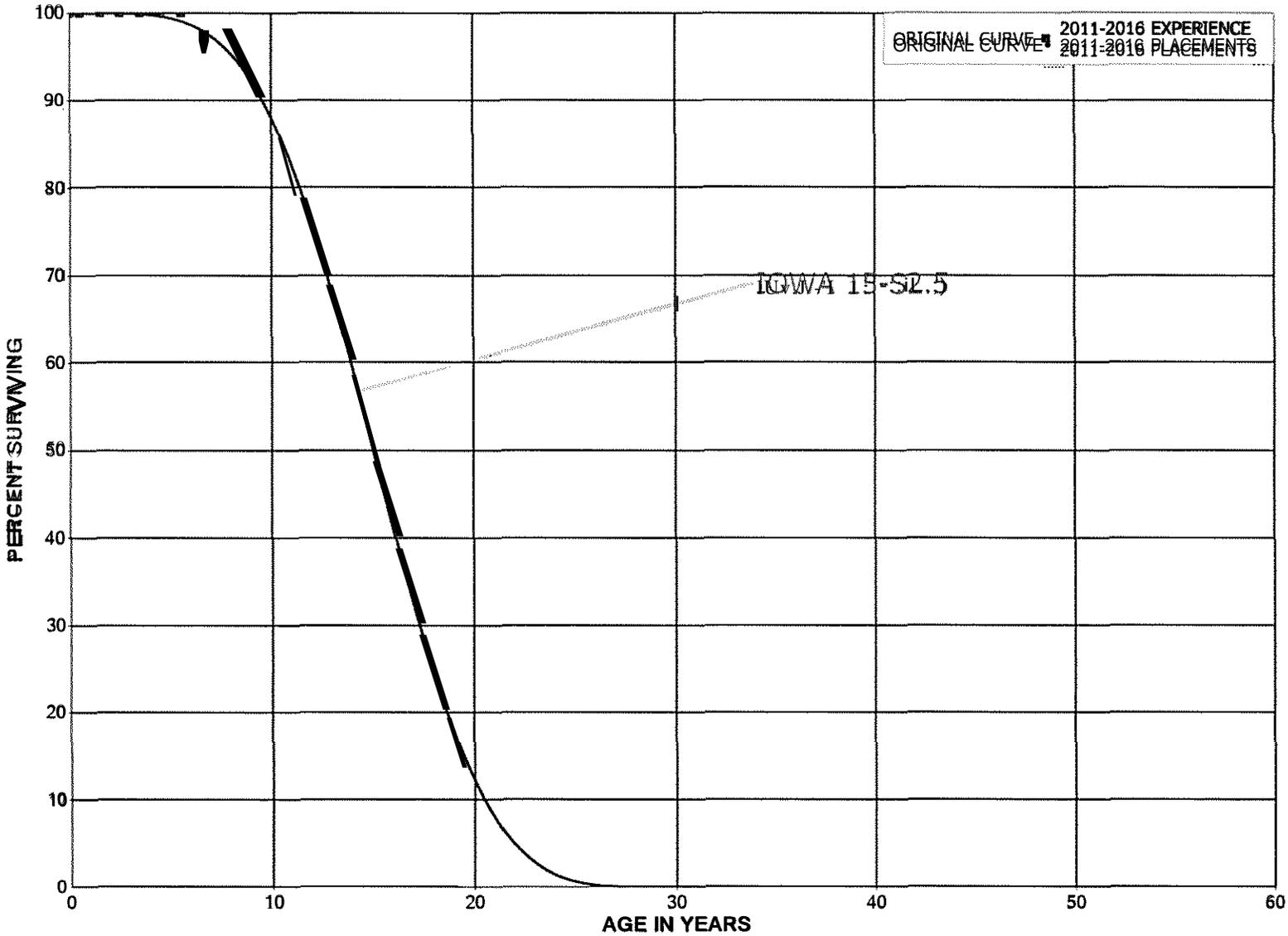


Gannett Fleming

VI-228

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS
ACCOUNT 370.02 METERS - UOF
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY PROGRESS

ACCOUNT 370.02 METERS - UOF

ORIGINAL LIFE TABLE

PLACEMENT BAND 2011-2016

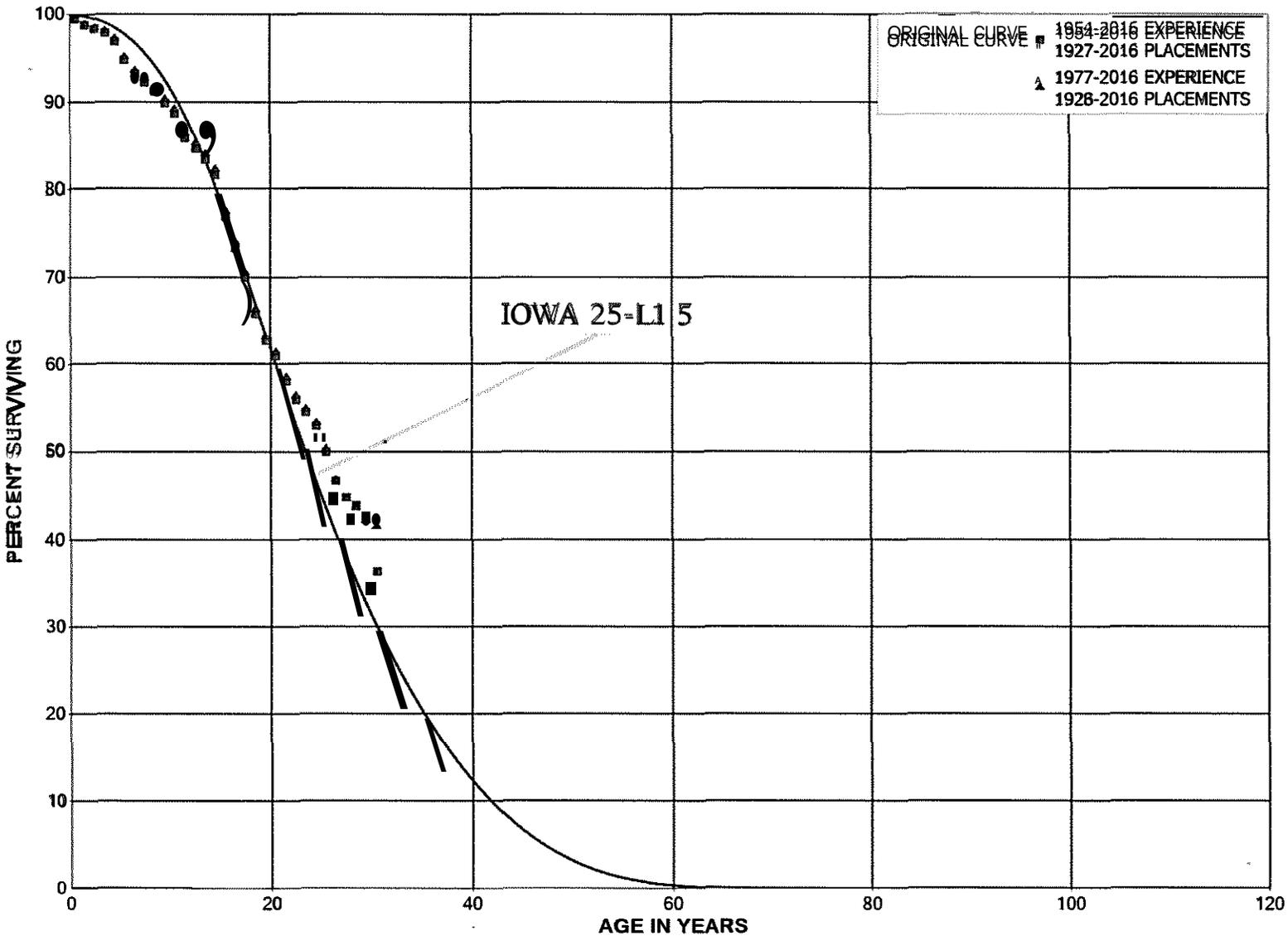
EXPERIENCE BAND 2011-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,601,496		0.0000	1.0000	100.00
0.5	4,571,671		0.0000	1.0000	100.00
1.5	4,570,580		0.0000	1.0000	100.00
2.5	4,544,528		0.0000	1.0000	100.00
3.5	4,544,130		0.0000	1.0000	100.00
4.5	297,662		0.0000	1.0000	100.00
5.5					100.00

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 292 of 317



DUKE ENERGY PROGRESS
ACCOUNT 371 INSTALLATIONS ON CUSTOMERS PREMISES
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VI-230

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS PREMISES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1927-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REIMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	347,533,516	2,153,686	0.0062	0.9938	100.00
0.5	335,961,970	2,213,808	0.0066	0.9934	99.38
1.5	327,420,990	1,472,729	0.0045	0.9955	98.73
2.5	314,139,964	1,408,583	0.0045	0.9955	98.28
3.5	309,123,357	3,005,806	0.0097	0.9903	97.84
4.5	296,150,035	6,593,372	0.0223	0.9777	96.89
5.5	282,463,252	4,638,761	0.0164	0.9836	94.73
6.5	270,694,194	2,857,819	0.0106	0.9894	93.18
7.5	261,006,972	3,018,240	0.0116	0.9884	92.19
8.5	245,732,655	3,559,702	0.0145	0.9855	91.13
9.5	231,738,888	2,943,892	0.0127	0.9873	89.81
10.5	216,653,563	6,882,516	0.0318	0.9682	88.67
11.5	198,446,708	2,776,393	0.0140	0.9860	85.85
12.5	184,314,347	2,743,286	0.0149	0.9851	84.65
13.5	169,076,955	3,577,325	0.0212	0.9788	83.39
14.5	156,758,285	9,208,888	0.0587	0.9413	81.62
15.5	127,652,444	5,828,388	0.0457	0.9543	76.83
16.5	115,032,163	5,300,429	0.0461	0.9539	73.32
17.5	84,588,547	5,059,592	0.0598	0.9402	69.94
18.5	78,572,759	3,664,274	0.0466	0.9534	65.76
19.5	66,641,907	1,854,466	0.0278	0.9722	62.69
20.5	32,851,542	1,558,216	0.0474	0.9526	60.95
21.5	26,963,165	984,282	0.0365	0.9635	58.06
22.5	13,603,819	358,984	0.0264	0.9736	55.94
23.5	8,270,129	235,535	0.0285	0.9715	54.46
24.5	5,489,318	301,196	0.0549	0.9451	52.91
25.5	3,676,796	250,335	0.0681	0.9319	50.01
26.5	2,928,407	117,060	0.0400	0.9600	46.60
27.5	2,289,074	47,518	0.0208	0.9792	44.74
28.5	1,905,676	50,769	0.0266	0.9734	43.81
29.5	1,605,451	239,201	0.1490	0.8510	42.64
30.5	140,560	637	0.0045	0.9955	36.29
31.5	139,819	473	0.0034	0.9966	36.13
32.5	139,346	804	0.0058	0.9942	36.00
33.5	138,533	349	0.0025	0.9975	35.80
34.5	138,184	325	0.0024	0.9976	35.71
35.5	137,859	162	0.0012	0.9988	35.62
36.5	137,697	178	0.0013	0.9987	35.58
37.5	137,518		0.0000	1.0000	35.53
38.5	137,518	81	0.0006	0.9994	35.53

DUKE ENERGY PROGRESS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS PREMISES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1927-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	137,437	81	0.0006	0.9994	35.51
40.5	137,356	24,256	0.1766	0.8234	35.49
41.5	113,100	13,562	0.1199	0.8801	29.22
42.5	99,538	12,334	0.1239	0.8761	25.72
43.5	87,204	17,583	0.2016	0.7984	22.53
44.5	69,621	16,027	0.2302	0.7698	17.99
45.5	53,594	13,326	0.2486	0.7514	13.85
46.5	40,268	9,849	0.2446	0.7554	10.40
47.5	30,419	7,761	0.2551	0.7449	7.86
48.5	22,658	6,748	0.2978	0.7022	5.85
49.5	15,910	5,347	0.3361	0.6639	4.11
50.5	10,563	4,690	0.4440	0.5560	2.73
51.5	5,873	3,889	0.6621	0.3379	1.52
52.5	1,984	1,979	0.9973	0.0027	0.51
53.5	5	4	0.7477	0.2523	0.00
54.5	1		0.0000	1.0000	0.00
55.5	1		0.0000	1.0000	0.00
56.5	1		0.0000	1.0000	0.00
57.5	1		0.0000	1.0000	0.00
58.5	1		0.0000	1.0000	0.00
59.5	1		0.0000	1.0000	0.00
60.5	1	1	1.0000		0.00
61.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 295 of 317

DUKE ENERGY PROGRESS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS PREMISES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1928-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	340,061,038	1,908,650	0.0056	0.9944	100.00
0.5	329,159,260	2,070,677	0.0063	0.9937	99.44
1.5	320,857,970	1,299,083	0.0040	0.9960	98.81
2.5	308,261,906	1,195,415	0.0039	0.9961	98.41
3.5	303,826,951	2,778,371	0.0091	0.9909	98.03
4.5	291,424,172	6,353,795	0.0218	0.9782	97.14
5.5	278,141,943	4,435,222	0.0159	0.9841	95.02
6.5	266,785,709	2,687,358	0.0101	0.9899	93.50
7.5	257,627,288	2,879,302	0.0112	0.9888	92.56
8.5	242,773,152	3,421,142	0.0141	0.9859	91.53
9.5	229,282,420	2,821,264	0.0123	0.9877	90.24
10.5	214,637,879	6,702,142	0.0312	0.9688	89.13
11.5	196,834,953	2,518,360	0.0128	0.9872	86.34
12.5	183,191,132	2,554,104	0.0139	0.9861	85.24
13.5	168,346,113	3,514,971	0.0209	0.9791	84.05
14.5	156,261,341	9,163,672	0.0586	0.9414	82.29
15.5	127,346,486	5,825,055	0.0457	0.9543	77.47
16.5	114,756,278	5,297,022	0.0462	0.9538	73.93
17.5	84,328,236	5,058,264	0.0600	0.9400	70.51
18.5	78,332,214	3,658,286	0.0467	0.9533	66.28
19.5	66,421,626	1,849,621	0.0278	0.9722	63.19
20.5	32,647,921	1,556,029	0.0477	0.9523	61.43
21.5	26,771,005	982,926	0.0367	0.9633	58.50
22.5	13,421,302	358,279	0.0267	0.9733	56.35
23.5	8,096,868	234,705	0.0290	0.9710	54.85
24.5	5,325,134	300,741	0.0565	0.9435	53.26
25.5	3,523,559	248,297	0.0705	0.9295	50.25
26.5	2,564,743	116,811	0.0455	0.9545	46.71
27.5	1,928,112	46,997	0.0244	0.9756	44.58
28.5	1,546,125	50,002	0.0323	0.9677	43.50
29.5	1,247,266	20,842	0.0167	0.9833	42.09
30.5	1,217	563	0.4628	0.5372	41.39
31.5	891	473	0.5316	0.4684	22.23
32.5	740	638	0.8618	0.1382	10.41
33.5	359	266	0.7400	0.2600	1.44
34.5	335	242	0.7214	0.2786	0.37
35.5	24,511	162	0.0066	0.9934	0.10
36.5	37,913	178	0.0047	0.9953	0.10
37.5	50,069		0.0000	1.0000	0.10
38.5	59,715	81	0.0014	0.9986	0.10

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 296 of 317

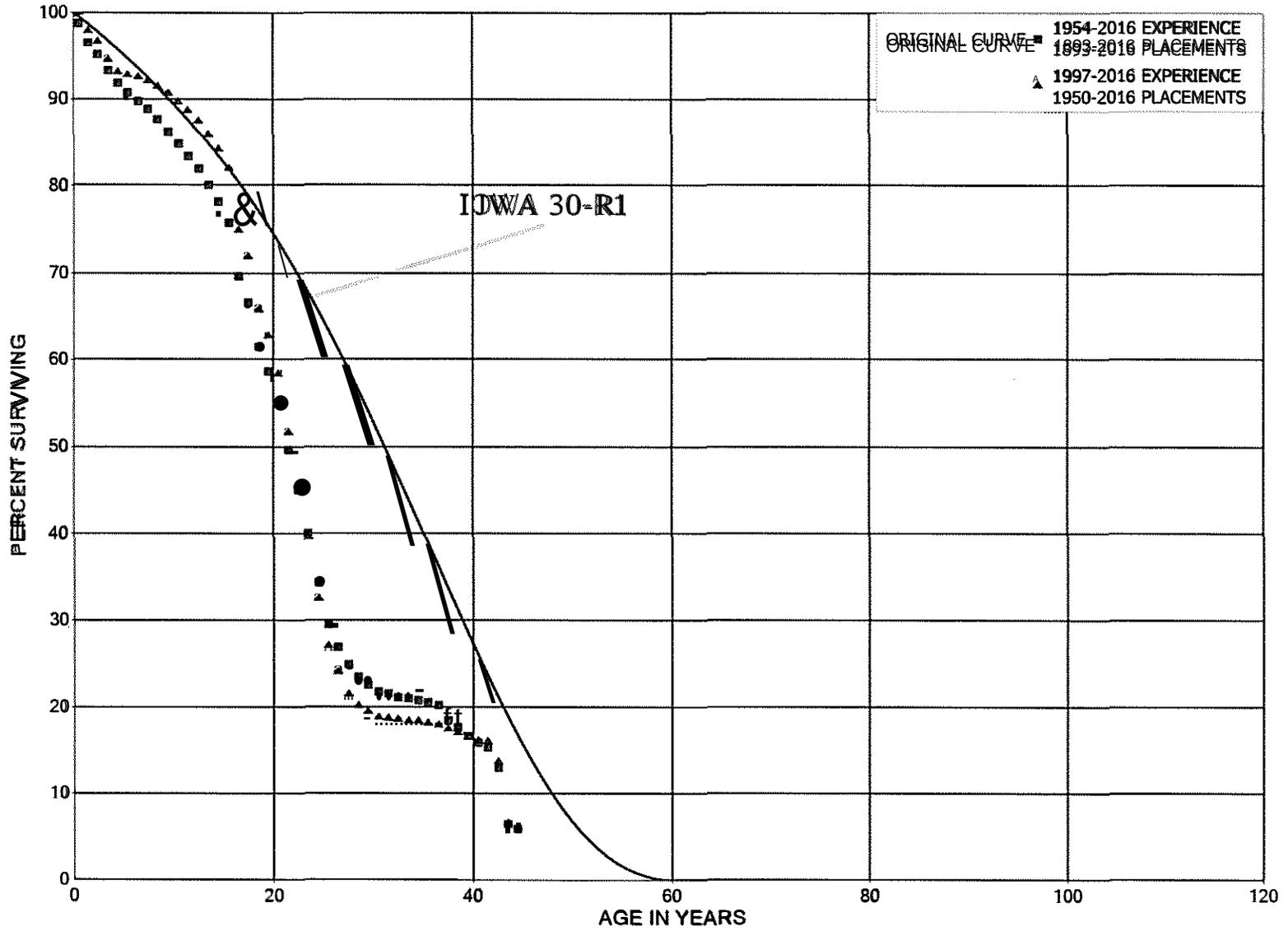
DUKE ENERGY PROGRESS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS PREMISES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1928-2016		EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	76,457	81	0.0011	0.9989	0.10
40.5	91,404	24,256	0.2654	0.7346	0.10
41.5	78,006	13,479	0.1728	0.8272	0.08
42.5	73,717	12,334	0.1673	0.8327	0.06
43.5	68,280	17,341	0.2540	0.7460	0.05
44.5	56,596	16,027	0.2832	0.7168	0.04
45.5	45,814	13,326	0.2909	0.7091	0.03
46.5	37,057	9,849	0.2658	0.7342	0.02
47.5	30,343	7,761	0.2558	0.7442	0.01
48.5	22,658	6,748	0.2978	0.7022	0.01
49.5	15,910	5,347	0.3361	0.6639	0.01
50.5	10,563	4,690	0.4440	0.5560	0.01
51.5	5,873	3,889	0.6621	0.3379	0.00
52.5	1,984	1,979	0.9973	0.0027	0.00
53.5	5	4	0.7477	0.2523	0.00
54.5	1		0.0000	1.0000	0.00
55.5	1		0.0000	1.0000	0.00
56.5	1		0.0000	1.0000	0.00
57.5	1		0.0000	1.0000	0.00
58.5	1		0.0000	1.0000	0.00
59.5	1		0.0000	1.0000	0.00
60.5	1	1	1.0000		0.00
61.5					

DUKE ENERGY PROGRESS
ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VI-235

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1893-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	287,443,261	3,793,988	0.0132	0.9868	100.00
0.5	196,112,977	4,322,717	0.0220	0.9780	98.68
1.5	142,966,533	1,962,992	0.0137	0.9863	96.50
2.5	123,939,420	2,442,445	0.0197	0.9803	95.18
3.5	118,326,559	1,922,590	0.0162	0.9838	93.30
4.5	107,805,068	1,210,751	0.0112	0.9888	91.79
5.5	104,612,695	1,135,192	0.0109	0.9891	90.76
6.5	100,759,786	1,089,670	0.0108	0.9892	89.77
7.5	91,003,926	1,185,940	0.0130	0.9870	88.80
8.5	85,329,884	1,384,960	0.0162	0.9838	87.64
9.5	80,079,433	1,305,623	0.0163	0.9837	86.22
10.5	74,853,092	1,216,423	0.0163	0.9837	84.82
11.5	69,528,659	1,278,286	0.0184	0.9816	83.44
12.5	64,554,572	1,463,328	0.0227	0.9773	81.90
13.5	58,963,710	1,406,028	0.0238	0.9762	80.05
14.5	53,995,171	1,702,818	0.0315	0.9685	78.14
15.5	48,286,377	3,843,436	0.0796	0.9204	75.67
16.5	41,931,081	1,801,232	0.0430	0.9570	69.65
17.5	34,552,575	2,658,834	0.0770	0.9230	66.66
18.5	31,188,938	1,465,896	0.0470	0.9530	61.53
19.5	28,810,707	1,815,067	0.0630	0.9370	58.64
20.5	23,673,294	2,292,559	0.0968	0.9032	54.94
21.5	20,249,747	1,910,667	0.0944	0.9056	49.62
22.5	17,407,070	1,937,352	0.1113	0.8887	44.94
23.5	14,586,435	2,072,739	0.1421	0.8579	39.94
24.5	11,427,059	1,588,655	0.1390	0.8610	34.26
25.5	9,020,828	806,184	0.0894	0.9106	29.50
26.5	7,635,302	590,881	0.0774	0.9226	26.86
27.5	6,356,938	365,154	0.0574	0.9426	24.78
28.5	5,343,888	207,805	0.0389	0.9611	23.36
29.5	4,176,270	132,445	0.0317	0.9683	22.45
30.5	3,104,333	33,859	0.0109	0.9891	21.74
31.5	2,654,018	48,476	0.0183	0.9817	21.50
32.5	2,486,537	20,764	0.0084	0.9916	21.11
33.5	2,465,217	22,540	0.0091	0.9909	20.93
34.5	2,220,948	26,864	0.0121	0.9879	20.74
35.5	2,167,833	31,282	0.0144	0.9856	20.49
36.5	1,921,618	170,978	0.0890	0.9110	20.20
37.5	1,468,295	66,035	0.0450	0.9550	18.40
38.5	1,302,100	73,923	0.0568	0.9432	17.57

DUKE ENERGY PROGRESS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1893-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,060,322	49,677	0.0469	0.9531	16.57
40.5	899,140	32,039	0.0356	0.9644	15.80
41.5	835,990	124,630	0.1491	0.8509	15.23
42.5	549,502	276,682	0.5035	0.4965	12.96
43.5	285,495	28,862	0.1011	0.8989	6.44
44.5	204,218	17,675	0.0865	0.9135	5.79
45.5	93,599	14,188	0.1516	0.8484	5.28
46.5	32,554	9,494	0.2916	0.7084	4.48
47.5	32,660	11,391	0.3488	0.6512	3.18
48.5	30,864	11,946	0.3870	0.6130	2.07
49.5	32,313	17,802	0.5509	0.4491	1.27
50.5	25,343	15,140	0.5974	0.4026	0.57
51.5	19,230	13,234	0.6882	0.3118	0.23
52.5	14,664	11,730	0.7999	0.2001	0.07
53.5	11,108	8,205	0.7386	0.2614	0.01
54.5	10,525	7,655	0.7273	0.2727	0.00
55.5	10,166	7,317	0.7198	0.2802	0.00
56.5	9,914	7,749	0.7816	0.2184	0.00
57.5	6,811	6,720	0.9866	0.0134	0.00
58.5	6,659	4,563	0.6853	0.3147	0.00
59.5	8,180	6,203	0.7583	0.2417	0.00
60.5	6,025	6,025	1.0000		0.00
61.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 300 of 317

DUKE ENERGY PROGRESS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1950-2016

EXPERIENCE BAND 1997-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	213,323,523	100,833	0.0005	0.9995	100.00
0.5	139,260,085	2,970,471	0.0213	0.9787	99.95
1.5	91,078,270	1,122,500	0.0123	0.9877	97.82
2.5	75,425,317	1,683,153	0.0223	0.9777	96.62
3.5	73,434,792	1,048,689	0.0143	0.9857	94.46
4.5	66,971,003	257,212	0.0038	0.9962	93.11
5.5	67,355,925	177,497	0.0026	0.9974	92.75
6.5	67,438,880	290,438	0.0043	0.9957	92.51
7.5	61,856,083	463,332	0.0075	0.9925	92.11
8.5	59,710,347	547,268	0.0092	0.9908	91.42
9.5	58,412,327	615,844	0.0105	0.9895	90.58
10.5	57,881,576	665,331	0.0115	0.9885	89.63
11.5	54,432,664	761,576	0.0140	0.9860	88.60
12.5	50,946,503	894,284	0.0176	0.9824	87.36
13.5	46,572,783	886,454	0.0190	0.9810	85.82
14.5	42,752,386	1,165,947	0.0273	0.9727	84.19
15.5	37,926,692	3,265,395	0.0861	0.9139	81.89
16.5	32,352,499	1,302,261	0.0403	0.9597	74.84
17.5	26,081,268	2,208,818	0.0847	0.9153	71.83
18.5	23,718,688	1,107,376	0.0467	0.9533	65.75
19.5	22,083,910	1,550,391	0.0702	0.9298	62.68
20.5	17,239,495	1,970,245	0.1143	0.8857	58.28
21.5	14,385,184	1,664,235	0.1157	0.8843	51.62
22.5	12,574,399	1,680,700	0.1337	0.8663	45.65
23.5	10,688,152	1,924,389	0.1800	0.8200	39.54
24.5	8,054,091	1,366,016	0.1696	0.8304	32.42
25.5	5,981,418	659,381	0.1102	0.8898	26.93
26.5	4,728,437	507,169	0.1073	0.8927	23.96
27.5	3,770,790	231,499	0.0614	0.9386	21.39
28.5	2,909,617	102,747	0.0353	0.9647	20.07
29.5	2,068,961	71,129	0.0344	0.9656	19.37
30.5	1,355,021	4,192	0.0031	0.9969	18.70
31.5	1,043,254	8,432	0.0081	0.9919	18.64
32.5	1,095,544	11,166	0.0102	0.9898	18.49
33.5	1,224,584	4,325	0.0035	0.9965	18.30
34.5	1,031,211	6,701	0.0065	0.9935	18.24
35.5	1,192,578	21,199	0.0178	0.9822	18.12
36.5	945,975	24,274	0.0257	0.9743	17.80
37.5	706,744	17,616	0.0249	0.9751	17.34
38.5	705,778	15,443	0.0219	0.9781	16.91

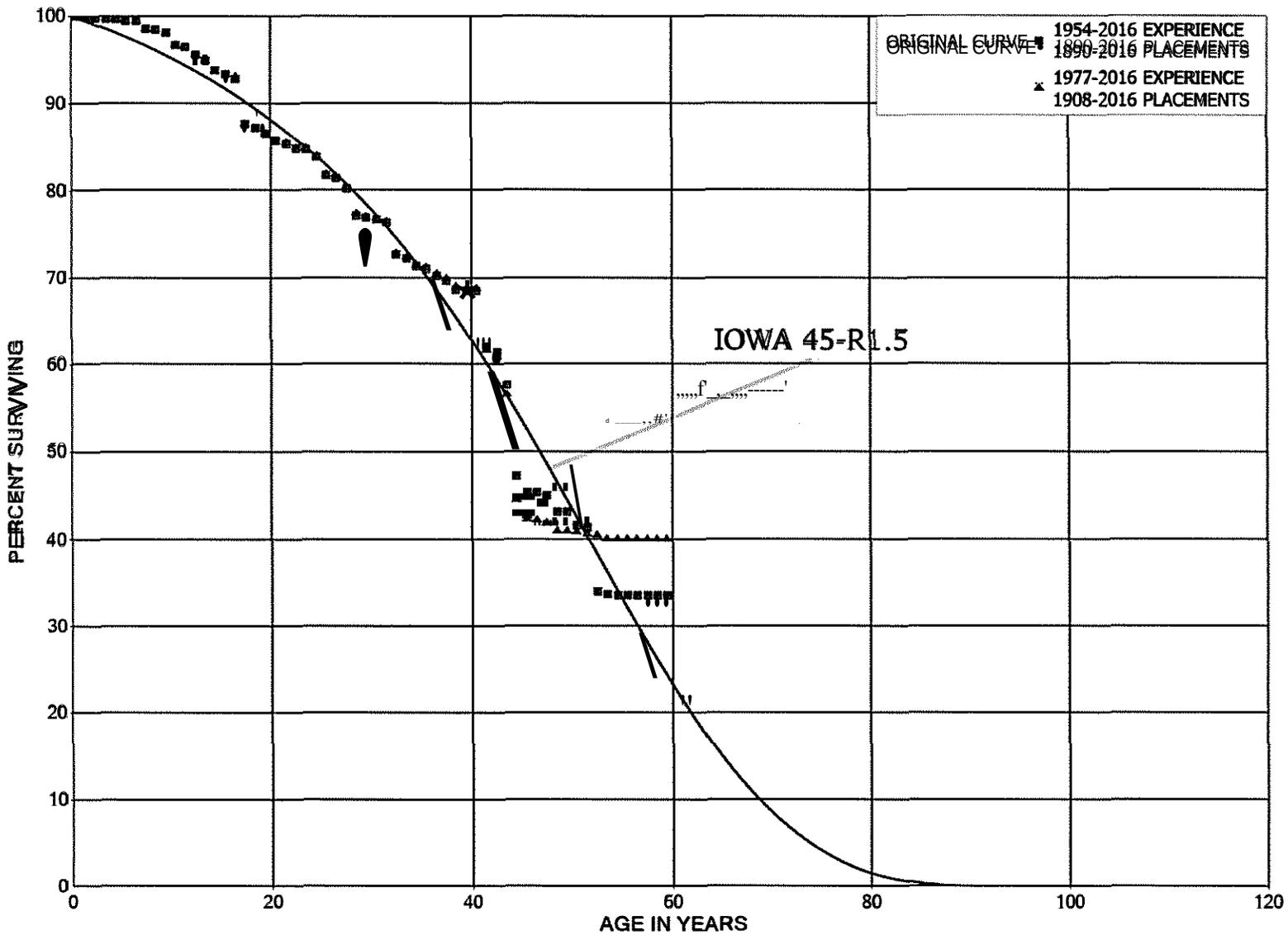
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 301 of 317

DUKE ENERGY PROGRESS
ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1950-2016			EXPERIENCE BAND 1997-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	658,520	19,370	0.0294	0.9706	16.54
40.5	572,613	2,880	0.0050	0.9950	16.05
41.5	627,383	94,427	0.1505	0.8495	15.97
42.5	508,196	263,860	0.5192	0.4808	13.57
43.5	244,337	15,310	0.0627	0.9373	6.52
44.5	167,338	6,959	0.0416	0.9584	6.11
45.5	56,534	2,127	0.0376	0.9624	5.86
46.5					5.64

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 302 of 317

DUKE ENERGY PROGRESS
ACCOUNT 390 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

VII-240

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1890-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	158,473,893	1,200	0.0000	1.0000	100.00
0.5	149,116,157	264,516	0.0018	0.9982	100.00
1.5	142,675,608	185,816	0.0013	0.9987	99.82
2.5	126,707,964	85,515	0.0007	0.9993	99.69
3.5	122,176,164	23,203	0.0002	0.9998	99.62
4.5	115,200,917	195,237	0.0017	0.9983	99.61
5.5	108,379,949	45,608	0.0004	0.9996	99.44
6.5	106,200,001	929,390	0.0088	0.9912	99.39
7.5	100,839,450	167,460	0.0017	0.9983	98.53
8.5	96,398,613	315,346	0.0033	0.9967	98.36
9.5	95,172,441	1,339,925	0.0141	0.9859	98.04
10.5	91,546,368	275,090	0.0030	0.9970	96.66
11.5	91,118,353	784,696	0.0086	0.9914	96.37
12.5	89,014,916	640,244	0.0072	0.9928	95.54
13.5	85,982,447	1,058,143	0.0123	0.9877	94.85
14.5	82,590,457	373,048	0.0045	0.9955	93.68
15.5	73,263,751	434,832	0.0059	0.9941	93.26
16.5	68,336,938	3,737,761	0.0547	0.9453	92.71
17.5	56,707,420	311,474	0.0055	0.9945	87.64
18.5	50,477,653	365,304	0.0072	0.9928	87.16
19.5	49,655,626	456,658	0.0092	0.9908	86.53
20.5	35,854,551	126,836	0.0035	0.9965	85.73
21.5	34,671,875	234,979	0.0068	0.9932	85.43
22.5	33,054,508	51,577	0.0016	0.9984	84.85
23.5	32,342,394	319,763	0.0099	0.9901	84.71
24.5	31,792,354	804,561	0.0253	0.9747	83.88
25.5	30,078,415	139,864	0.0046	0.9954	81.75
26.5	29,717,296	450,017	0.0151	0.9849	81.37
27.5	28,776,194	1,094,818	0.0380	0.9620	80.14
28.5	25,671,338	97,182	0.0038	0.9962	77.09
29.5	23,691,824	63,545	0.0027	0.9973	76.80
30.5	14,858,938	68,258	0.0046	0.9954	76.60
31.5	14,529,110	684,827	0.0471	0.9529	76.24
32.5	11,406,917	69,769	0.0061	0.9939	72.65
33.5	9,746,286	122,091	0.0125	0.9875	72.21
34.5	8,158,595	33,497	0.0041	0.9959	71.30
35.5	6,821,536	76,619	0.0112	0.9888	71.01
36.5	5,441,606	46,997	0.0086	0.9914	70.21
37.5	3,919,306	55,576	0.0142	0.9858	69.60
38.5	3,824,002	8,125	0.0021	0.9979	68.62

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 304 of 317

DUKE ENERGY PROGRESS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1890-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,973,819	662	0.0002	0.9998	68.47
40.5	2,926,028	274,176	0.0937	0.9063	68.46
41.5	2,141,524	23,390	0.0109	0.9891	62.04
42.5	1,919,675	117,540	0.0612	0.9388	61.36
43.5	1,766,011	319,976	0.1812	0.8188	57.61
44.5	1,129,744	43,894	0.0389	0.9611	47.17
45.5	1,017,080	1,690	0.0017	0.9983	45.34
46.5	1,005,985	6,994	0.0070	0.9930	45.26
47.5	995,648	41,440	0.0416	0.9584	44.95
48.5	954,209	1,085	0.0011	0.9989	43.08
49.5	959,518	34,114	0.0356	0.9644	43.03
50.5	910,152	3,529	0.0039	0.9961	41.50
51.5	756,764	136,114	0.1799	0.8201	41.34
52.5	620,650	5,706	0.0092	0.9908	33.90
53.5	614,944	968	0.0016	0.9984	33.59
54.5	183,809		0.0000	1.0000	33.54
55.5	175,159		0.0000	1.0000	33.54
56.5	176,281		0.0000	1.0000	33.54
57.5	176,281		0.0000	1.0000	33.54
58.5	164,621	100	0.0006	0.9994	33.54
59.5	164,521		0.0000	1.0000	33.52
60.5	164,521	14,265	0.0867	0.9133	33.52
61.5	150,256		0.0000	1.0000	30.61
62.5	150,256		0.0000	1.0000	30.61
63.5	155,412	26,777	0.1723	0.8277	30.61
64.5	112,130	1,122	0.0100	0.9900	25.34
65.5	109,578	2,492	0.0227	0.9773	25.08
66.5	107,086		0.0000	1.0000	24.51
67.5	107,086	6,139	0.0573	0.9427	24.51
68.5	100,947		0.0000	1.0000	23.11
69.5	100,947		0.0000	1.0000	23.11
70.5	100,947		0.0000	1.0000	23.11
71.5	100,947	69,166	0.6852	0.3148	23.11
72.5	31,780		0.0000	1.0000	7.27
73.5	31,780		0.0000	1.0000	7.27
74.5	31,780		0.0000	1.0000	7.27
75.5	31,780		0.0000	1.0000	7.27
76.5	31,780		0.0000	1.0000	7.27
77.5	31,780		0.0000	1.0000	7.27
78.5	31,780		0.0000	1.0000	7.27

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 305 of 317

DUKE ENERGY PROGRESS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1890-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	31,780		0.0000	1.0000	7.27
80.5	31,780		0.0000	1.0000	7.27
81.5	31,780		0.0000	1.0000	7.27
82.5	27,784		0.0000	1.0000	7.27
83.5	27,784		0.0000	1.0000	7.27
84.5	27,784		0.0000	1.0000	7.27
85.5	27,784		0.0000	1.0000	7.27
86.5	27,784		0.0000	1.0000	7.27
87.5	27,784		0.0000	1.0000	7.27
88.5	27,784		0.0000	1.0000	7.27
89.5	27,784		0.0000	1.0000	7.27
90.5	27,784		0.0000	1.0000	7.27
91.5	27,784		0.0000	1.0000	7.27
92.5	3,765		0.0000	1.0000	7.27
93.5	3,765		0.0000	1.0000	7.27
94.5	3,765		0.0000	1.0000	7.27
95.5	3,765		0.0000	1.0000	7.27
96.5	3,765		0.0000	1.0000	7.27
97.5	3,765		0.0000	1.0000	7.27
98.5	3,765		0.0000	1.0000	7.27
99.5	3,765		0.0000	1.0000	7.27
100.5	3,765		0.0000	1.0000	7.27
101.5	3,765		0.0000	1.0000	7.27
102.5	3,765		0.0000	1.0000	7.27
103.5	3,765		0.0000	1.0000	7.27
104.5	3,765	565	0.1500	0.8500	7.27
105.5	3,200		0.0000	1.0000	6.18
106.5	2,639	452	0.1712	0.8288	6.18
107.5	2,187		0.0000	1.0000	5.12
108.5					5.12

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 306 of 317

DUKE ENERGY PROGRESS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	153,460,182	1,200	0.0000	1.0000	100.00
0.5	144,249,026	258,925	0.0018	0.9982	100.00
1.5	139,777,754	184,044	0.0013	0.9987	99.82
2.5	124,330,704	77,388	0.0006	0.9994	99.69
3.5	119,849,611	22,725	0.0002	0.9998	99.63
4.5	113,377,514	186,385	0.0016	0.9984	99.61
5.5	106,664,871	43,520	0.0004	0.9996	99.44
6.5	104,460,572	908,945	0.0087	0.9913	99.40
7.5	99,135,725	150,244	0.0015	0.9985	98.54
8.5	94,715,024	314,927	0.0033	0.9967	98.39
9.5	93,511,595	1,339,223	0.0143	0.9857	98.06
10.5	89,945,082	274,233	0.0030	0.9970	96.66
11.5	89,692,582	765,870	0.0085	0.9915	96.36
12.5	87,608,328	636,949	0.0073	0.9927	95.54
13.5	84,582,759	1,051,104	0.0124	0.9876	94.85
14.5	81,764,699	356,144	0.0044	0.9956	93.67
15.5	72,468,923	427,019	0.0059	0.9941	93.26
16.5	67,562,040	3,731,165	0.0552	0.9448	92.71
17.5	56,093,045	308,474	0.0055	0.9945	87.59
18.5	49,873,428	365,304	0.0073	0.9927	87.11
19.5	49,051,645	455,658	0.0093	0.9907	86.47
20.5	35,251,570	63,024	0.0018	0.9982	85.67
21.5	34,134,560	224,467	0.0066	0.9934	85.51
22.5	32,815,726	48,629	0.0015	0.9985	84.95
23.5	32,104,882	316,923	0.0099	0.9901	84.82
24.5	31,582,381	797,681	0.0253	0.9747	83.99
25.5	29,885,971	138,327	0.0046	0.9954	81.87
26.5	29,555,560	425,918	0.0144	0.9856	81.49
27.5	28,534,640	1,094,496	0.0384	0.9616	80.31
28.5	25,422,704	87,581	0.0034	0.9966	77.23
29.5	23,361,654	57,504	0.0025	0.9975	76.97
30.5	14,536,351	66,981	0.0046	0.9954	76.78
31.5	14,207,800	684,392	0.0482	0.9518	76.42
32.5	11,086,042	69,769	0.0063	0.9937	72.74
33.5	9,423,806	116,417	0.0124	0.9876	72.28
34.5	7,841,789	22,855	0.0029	0.9971	71.39
35.5	6,515,372	74,480	0.0114	0.9886	71.18
36.5	5,129,570	36,539	0.0071	0.9929	70.37
37.5	3,616,205	50,333	0.0139	0.9861	69.87
38.5	3,525,577	7,368	0.0021	0.9979	68.90

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 307 of 317

DUKE ENERGY PROGRESS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016

EXPERIENCE BAND 1977-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,676,151	662	0.0002	0.9998	68.75
40.5	2,628,551	272,111	0.1035	0.8965	68.73
41.5	1,850,620	23,389	0.0126	0.9874	61.62
42.5	1,632,769	117,340	0.0719	0.9281	60.84
43.5	1,475,687	315,587	0.2139	0.7861	56.47
44.5	843,325	42,270	0.0501	0.9499	44.39
45.5	719,907	1,207	0.0017	0.9983	42.17
46.5	710,588	6,994	0.0098	0.9902	42.10
47.5	700,251	14,052	0.0201	0.9799	41.68
48.5	686,200	1,085	0.0016	0.9984	40.85
49.5	677,810	1,483	0.0022	0.9978	40.78
50.5	721,586	3,529	0.0049	0.9951	40.69
51.5	568,198	1,828	0.0032	0.9968	40.49
52.5	590,389	5,706	0.0097	0.9903	40.36
53.5	584,683	968	0.0017	0.9983	39.97
54.5	153,548		0.0000	1.0000	39.91
55.5	144,898		0.0000	1.0000	39.91
56.5	144,898		0.0000	1.0000	39.91
57.5	144,898		0.0000	1.0000	39.91
58.5	133,239		0.0000	1.0000	39.91
59.5	133,239		0.0000	1.0000	39.91
60.5	133,239		0.0000	1.0000	39.91
61.5	133,239		0.0000	1.0000	39.91
62.5	133,239		0.0000	1.0000	39.91
63.5	133,239	26,777	0.2010	0.7990	39.91
64.5	89,956		0.0000	1.0000	31.89
65.5	88,526		0.0000	1.0000	31.89
66.5	89,652		0.0000	1.0000	31.89
67.5	89,652		0.0000	1.0000	31.89
68.5	95,791		0.0000	1.0000	31.89
69.5	95,791		0.0000	1.0000	31.89
70.5	95,791		0.0000	1.0000	31.89
71.5	95,791	64,010	0.6682	0.3318	31.89
72.5	31,780		0.0000	1.0000	10.58
73.5	31,780		0.0000	1.0000	10.58
74.5	31,780		0.0000	1.0000	10.58
75.5	31,780		0.0000	1.0000	10.58
76.5	31,780		0.0000	1.0000	10.58
77.5	31,780		0.0000	1.0000	10.58
78.5	31,780		0.0000	1.0000	10.58

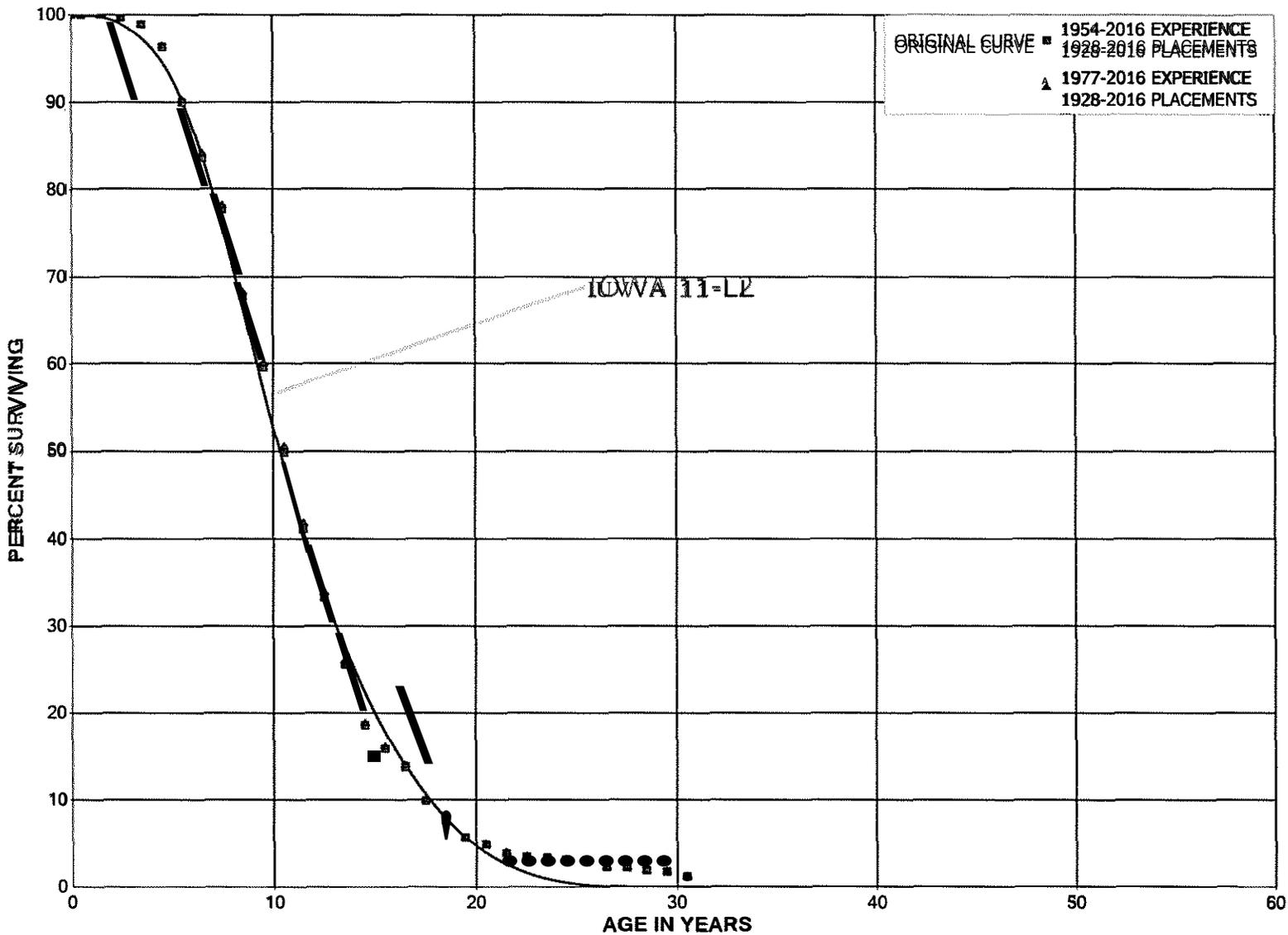
ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 308 of 317

DUKE ENERGY PROGRESS
ACCOUNT 390 STRUCTURES AND IMPROVEMENTS
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	31,780		0.0000	1.0000	10.58
80.5	31,780		0.0000	1.0000	10.58
81.5	31,780		0.0000	1.0000	10.58
82.5	27,784		0.0000	1.0000	10.58
83.5	27,784		0.0000	1.0000	10.58
84.5	27,784		0.0000	1.0000	10.58
85.5	27,784		0.0000	1.0000	10.58
86.5	27,784		0.0000	1.0000	10.58
87.5	27,784		0.0000	1.0000	10.58
88.5	27,784		0.0000	1.0000	10.58
89.5	27,784		0.0000	1.0000	10.58
90.5	27,784		0.0000	1.0000	10.58
91.5	27,784		0.0000	1.0000	10.58
92.5	3,765		0.0000	1.0000	10.58
93.5	3,765		0.0000	1.0000	10.58
94.5	3,765		0.0000	1.0000	10.58
95.5	3,765		0.0000	1.0000	10.58
96.5	3,765		0.0000	1.0000	10.58
97.5	3,765		0.0000	1.0000	10.58
98.5	3,765		0.0000	1.0000	10.58
99.5	3,765		0.0000	1.0000	10.58
100.5	3,765		0.0000	1.0000	10.58
101.5	3,765		0.0000	1.0000	10.58
102.5	3,765		0.0000	1.0000	10.58
103.5	3,765		0.0000	1.0000	10.58
104.5	3,765	565	0.1500	0.8500	10.58
105.5	3,200		0.0000	1.0000	8.99
106.5	2,639	452	0.1712	0.8288	8.99
107.5	2,187		0.0000	1.0000	7.45
108.5					7.45

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 309 of 317

DUKE ENERGY PROGRESS
ACCOUNT 392 TRANSPORTATION EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

ML-247

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 392 TRANSPORTATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1928-2016

EXPERIENCE BAND 1954-2016

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	282,176,182	43,013	0.0002	0.9998	100.00
0.5	280,225,127	219,041	0.0008	0.9992	99.98
1.5	279,388,982	885,038	0.0032	0.9968	99.91
2.5	278,746,174	1,990,377	0.0071	0.9929	99.59
3.5	255,788,659	6,737,160	0.0263	0.9737	98.88
4.5	232,381,950	15,155,045	0.0652	0.9348	96.27
5.5	217,277,974	15,288,247	0.0704	0.9296	90.00
6.5	173,385,932	12,391,067	0.0715	0.9285	83.66
7.5	155,223,727	19,936,649	0.1284	0.8716	77.68
8.5	125,948,931	15,118,948	0.1200	0.8800	67.71
9.5	108,532,597	17,759,373	0.1636	0.8364	59.58
10.5	85,123,329	14,956,948	0.1757	0.8243	49.83
11.5	70,089,881	13,272,132	0.1894	0.8106	41.07
12.5	56,629,244	13,190,963	0.2329	0.7671	33.30
13.5	41,138,689	11,385,672	0.2768	0.7232	25.54
14.5	28,408,757	3,996,819	0.1407	0.8593	18.47
15.5	24,382,839	3,291,134	0.1350	0.8650	15.87
16.5	20,584,322	5,909,917	0.2871	0.7129	13.73
17.5	13,141,124	3,083,267	0.2346	0.7654	9.79
18.5	9,842,167	2,512,670	0.2553	0.7447	7.49
19.5	6,065,069	822,474	0.1356	0.8644	5.58
20.5	5,073,653	985,834	0.1943	0.8057	4.82
21.5	4,041,942	511,858	0.1266	0.8734	3.89
22.5	3,464,721	132,382	0.0382	0.9618	3.39
23.5	3,329,450	181,776	0.0546	0.9454	3.26
24.5	3,090,069	233,759	0.0756	0.9244	3.09
25.5	2,679,392	550,864	0.2056	0.7944	2.85
26.5	2,070,423	94,549	0.0457	0.9543	2.27
27.5	1,969,565	293,673	0.1491	0.8509	2.16
28.5	1,664,252	132,768	0.0798	0.9202	1.84
29.5	1,523,110	465,316	0.3055	0.6945	1.69
30.5	958,501	59,973	0.0626	0.9374	1.18
31.5	882,455	47,225	0.0535	0.9465	1.10
32.5	756,569	71,449	0.0944	0.9056	1.04
33.5	391,790	75,029	0.1915	0.8085	0.94
34.5	227,020	7,594	0.0335	0.9665	0.76
35.5	181,566	33,014	0.1818	0.8182	0.74
36.5	110,484	28,856	0.2612	0.7388	0.60
37.5	70,499	15,685	0.2225	0.7775	0.45
38.5	54,814	1,336	0.0244	0.9756	0.35

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 311 of 317

DUKE ENERGY PROGRESS
ACCOUNT 392 TRANSPORTATION EQUIPMENT
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1928-2016			EXPERIENCE BAND 1954-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	52,240		0.0000	1.0000	0.34
40.5	52,240	1,598	0.0306	0.9694	0.34
41.5	49,766	2,625	0.0527	0.9473	0.33
42.5	45,094	3,321	0.0736	0.9264	0.31
43.5	39,493	1,328	0.0336	0.9664	0.29
44.5	34,285	5,009	0.1461	0.8539	0.28
45.5	29,276	2,063	0.0705	0.9295	0.24
46.5	27,214	1,296	0.0476	0.9524	0.22
47.5	25,918	4,298	0.1658	0.8342	0.21
48.5	21,620	389	0.0180	0.9820	0.18
49.5	21,230	5,981	0.2817	0.7183	0.17
50.5	15,250	630	0.0413	0.9587	0.12
51.5	14,620	923	0.0631	0.9369	0.12
52.5	13,697	1,523	0.1112	0.8888	0.11
53.5	12,174		0.0000	1.0000	0.10
54.5	12,174		0.0000	1.0000	0.10
55.5	12,174		0.0000	1.0000	0.10
56.5	12,174	3,644	0.2993	0.7007	0.10
57.5	8,530	1,997	0.2341	0.7659	0.07
58.5	6,533	994	0.1522	0.8478	0.05
59.5	5,539		0.0000	1.0000	0.04
60.5	5,539	202	0.0364	0.9636	0.04
61.5	5,337		0.0000	1.0000	0.04
62.5	5,337	2,020	0.3786	0.6214	0.04
63.5	3,317	812	0.2449	0.7551	0.03
64.5	2,504		0.0000	1.0000	0.02
65.5	2,504		0.0000	1.0000	0.02
66.5	2,504		0.0000	1.0000	0.02
67.5	2,504		0.0000	1.0000	0.02
68.5	2,504		0.0000	1.0000	0.02
69.5	1,368		0.0000	1.0000	0.02
70.5	1,368		0.0000	1.0000	0.02
71.5	1,368	685	0.5007	0.4993	0.02
72.5	683		0.0000	1.0000	0.01
73.5	683		0.0000	1.0000	0.01
74.5	683		0.0000	1.0000	0.01
75.5	683		0.0000	1.0000	0.01
76.5					0.01

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 312 of 317

DUKE ENERGY PROGRESS

ACCOUNT 392 TRANSPORTATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1928-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	REMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	266,560,025	35,385	0.0001	0.9999	100.00
0.5	265,552,214	211,281	0.0008	0.9992	99.99
1.5	265,622,298	833,480	0.0031	0.9969	99.91
2.5	266,940,258	1,892,709	0.0071	0.9929	99.59
3.5	245,298,973	6,297,358	0.0257	0.9743	98.89
4.5	223,469,949	14,241,951	0.0637	0.9363	96.35
5.5	210,100,633	14,315,887	0.0681	0.9319	90.21
6.5	167,614,498	11,744,116	0.0701	0.9299	84.06
7.5	150,428,099	19,303,396	0.1283	0.8717	78.17
8.5	122,295,172	14,485,617	0.1184	0.8816	68.14
9.5	105,905,362	16,836,526	0.1590	0.8410	60.07
10.5	83,823,005	14,582,766	0.1740	0.8260	50.52
11.5	69,484,987	13,137,378	0.1891	0.8109	41.73
12.5	56,304,396	13,135,449	0.2333	0.7667	33.84
13.5	40,870,978	11,353,321	0.2778	0.7222	25.95
14.5	28,176,520	3,959,757	0.1405	0.8595	18.74
15.5	24,190,383	3,210,261	0.1327	0.8673	16.11
16.5	20,465,473	5,899,891	0.2883	0.7117	13.97
17.5	13,037,249	3,078,450	0.2361	0.7639	9.94
18.5	9,745,619	2,510,198	0.2576	0.7424	7.59
19.5	5,971,508	819,067	0.1372	0.8628	5.64
20.5	4,983,437	985,834	0.1978	0.8022	4.86
21.5	3,956,111	504,793	0.1276	0.8724	3.90
22.5	3,386,252	132,040	0.0390	0.9610	3.40
23.5	3,253,689	175,570	0.0540	0.9460	3.27
24.5	3,024,536	222,706	0.0736	0.9264	3.10
25.5	2,621,691	550,664	0.2100	0.7900	2.87
26.5	2,019,499	92,176	0.0456	0.9544	2.26
27.5	1,921,880	289,611	0.1507	0.8493	2.16
28.5	1,622,648	126,526	0.0780	0.9220	1.84
29.5	1,494,141	464,884	0.3111	0.6889	1.69
30.5	930,162	59,937	0.0644	0.9356	1.17
31.5	855,022	45,723	0.0535	0.9465	1.09
32.5	730,638	71,449	0.0978	0.9022	1.03
33.5	368,229	73,018	0.1983	0.8017	0.93
34.5	205,986	7,594	0.0369	0.9631	0.75
35.5	160,532	32,811	0.2044	0.7956	0.72
36.5	91,071	28,856	0.3169	0.6831	0.57
37.5	53,523	14,430	0.2696	0.7304	0.39
38.5	39,093	988	0.0253	0.9747	0.29

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 313 of 317

DUKE ENERGY PROGRESS

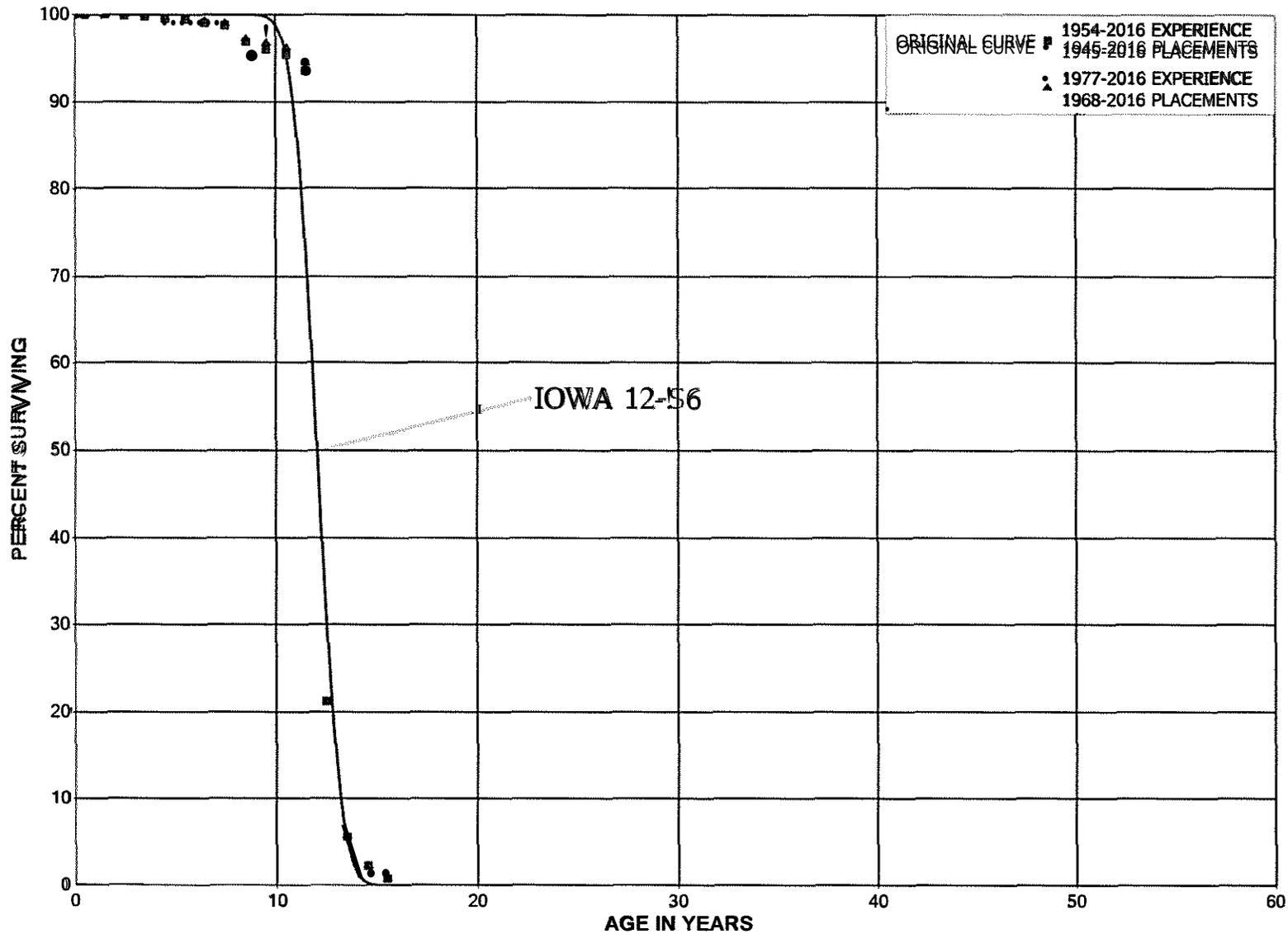
ACCOUNT 392 TRANSPORTATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1928-2016			EXPERIENCE BAND 1977-2016		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	43,282		0.0000	1.0000	0.28
40.5	45,647	1,598	0.0350	0.9650	0.28
41.5	43,173	2,625	0.0608	0.9392	0.27
42.5	38,501	3,321	0.0863	0.9137	0.25
43.5	32,900	515	0.0157	0.9843	0.23
44.5	28,505	5,009	0.1757	0.8243	0.23
45.5	23,496	1,262	0.0537	0.9463	0.19
46.5	22,235	1,296	0.0583	0.9417	0.18
47.5	20,938	685	0.0327	0.9673	0.17
48.5	21,620	389	0.0180	0.9820	0.16
49.5	21,230	5,981	0.2817	0.7183	0.16
50.5	15,250	630	0.0413	0.9587	0.11
51.5	14,620	923	0.0631	0.9369	0.11
52.5	13,697	1,523	0.1112	0.8888	0.10
53.5	12,174		0.0000	1.0000	0.09
54.5	12,174		0.0000	1.0000	0.09
55.5	12,174		0.0000	1.0000	0.09
56.5	12,174	3,644	0.2993	0.7007	0.09
57.5	8,530	1,997	0.2341	0.7659	0.06
58.5	6,533	994	0.1522	0.8478	0.05
59.5	5,539		0.0000	1.0000	0.04
60.5	5,539	202	0.0364	0.9636	0.04
61.5	5,337		0.0000	1.0000	0.04
62.5	5,337	2,020	0.3786	0.6214	0.04
63.5	3,317	812	0.2449	0.7551	0.02
64.5	2,504		0.0000	1.0000	0.02
65.5	2,504		0.0000	1.0000	0.02
66.5	2,504		0.0000	1.0000	0.02
67.5	2,504		0.0000	1.0000	0.02
68.5	2,504		0.0000	1.0000	0.02
69.5	1,368		0.0000	1.0000	0.02
70.5	1,368		0.0000	1.0000	0.02
71.5	1,368	685	0.5007	0.4993	0.02
72.5	683		0.0000	1.0000	0.01
73.5	683		0.0000	1.0000	0.01
74.5	683		0.0000	1.0000	0.01
75.5	683		0.0000	1.0000	0.01
76.5					0.01

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 314 of 317

DUKE ENERGY PROGRESS
ACCOUNT 396 POWER OPERATED EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



Gannett Fleming

WI 252

Duke Energy Progress
December 31, 2016

DUKE ENERGY PROGRESS

ACCOUNT 396 POWER OPERATED EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1945-2016		EXPERIENCE BAND 1954-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	10,258,472		0.0000	1.0000	100.00
0.5	9,747,922	4,102	0.0004	0.9996	100.00
1.5	9,664,373	8,074	0.0008	0.9992	99.96
2.5	9,479,110	16,401	0.0017	0.9983	99.87
3.5	9,460,085	19,900	0.0021	0.9979	99.70
4.5	8,473,133	5,415	0.0006	0.9994	99.49
5.5	8,387,009	40,458	0.0048	0.9952	99.43
6.5	7,796,004	14,951	0.0019	0.9981	98.95
7.5	7,774,359	152,230	0.0196	0.9804	98.76
8.5	7,330,349	67,143	0.0092	0.9908	96.83
9.5	7,263,206	42,787	0.0059	0.9941	95.94
10.5	6,594,350	129,262	0.0196	0.9804	95.37
11.5	6,415,204	4,930,063	0.7685	0.2315	93.50
12.5	1,485,141	1,068,895	0.7197	0.2803	21.65
13.5	416,246	227,952	0.5476	0.4524	6.07
14.5	188,294	100,332	0.5328	0.4672	2.74
15.5	87,963	40,387	0.4591	0.5409	1.28
16.5	47,576	46,638	0.9803	0.0197	0.69
17.5	938		0.0000	1.0000	0.01
18.5	938		0.0000	1.0000	0.01
19.5	938		0.0000	1.0000	0.01
20.5	938	938	1.0000		0.01
21.5					

ELECTRONICALLY FILED - 2018 November 8 10:54 AM - SCPSC - Docket # 2018-318-E - Page 316 of 317

DUKE ENERGY PROGRESS

ACCOUNT 396 POWER OPERATED EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2016		EXPERIENCE BAND 1977-2016			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETM RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	9,900,690		0.0000	1.0000	100.00
0.5	9,330,340		0.0000	1.0000	100.00
1.5	9,250,893		0.0000	1.0000	100.00
2.5	9,167,047	15,585	0.0017	0.9983	100.00
3.5	9,159,795	16,280	0.0018	0.9982	99.83
4.5	8,207,147	5,415	0.0007	0.9993	99.65
5.5	8,110,753	37,507	0.0046	0.9954	99.59
6.5	7,521,333	14,369	0.0019	0.9981	99.13
7.5	7,506,964	136,909	0.0182	0.9818	98.94
8.5	7,266,304	27,605	0.0038	0.9962	97.13
9.5	7,238,699	41,075	0.0057	0.9943	96.76
10.5	6,571,554	124,022	0.0189	0.9811	96.21
11.5	6,397,648	4,929,396	0.7705	0.2295	94.40
12.5	1,468,252	1,053,130	0.7173	0.2827	21.66
13.5	415,122	227,766	0.5487	0.4513	6.13
14.5	187,356	100,332	0.5355	0.4645	2.76
15.5	87,025	40,387	0.4641	0.5359	1.28
16.5	46,638	46,638	1.0000		0.69
17.5					